

A guide to the safe use of  
**SALON HAIR PRODUCTS**

**SAFETY**  
**DATA SHEETS**

**IMPORTANT**

Keep this book in the Salon  
for reference purposes

November 2016

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Reasonable care has been taken in preparing this document and the information provided herein is believed to be accurate. However, this information is not intended to constitute an "authoritative statement" nor to be taken as legal advice. Specific expert or legal advice may need to be obtained for interpretation of legislation and requirements and how individual organisations, products, services and activities meet compliance obligations.

## INTRODUCTION

Hair preparations should not present a risk to the health and safety of hairdressers or their clients if used sensibly and manufacturers' instructions are followed.

Manufacturers are required by law to supply health and safety information on any products used in hairdressing salons (a place of work) that contain potentially hazardous chemicals. Details must also be provided on the precautions that should be taken to reduce any risks. The information that manufacturers give their customers (including salons, wholesalers and distributors) is contained in this booklet.

The purpose of this booklet is to provide sufficient information on hair products used in salons, for you to make a workplace risk assessment as required by Australia's Hazardous Chemicals Framework. Please note that the exact legislative requirements vary slightly in each state and territory.

This book contains 19 Safety Data Sheets (SDS). They cover the categories of products commonly used in hairdressing salons.

The SDS tells you how to safely handle a product. It provides information for workers and professionals to help them make decisions and to prevent or deal with emergencies.

Use the product lists issued by manufacturers to determine which SDS applies to a particular hair care product.

All manufacturers must supply their customers (salons) with a list specifying which SDS in this booklet is relevant to each of their products. If you do not have such a list, contact your supplier.

If any of the products supplied by manufacturers do not comply with the information in this booklet then the correct information (i.e. product specific SDS) is required to be provided separately.

The information given in this booklet is ONLY PART of what is needed to meet the requirement for workplace risk assessment. Information will also be required on any other products used in the salon which may be hazardous to health, such as those used for cleaning, disinfecting and nail care products. Workplace health and safety (WHS) jurisdictions in the different states and territories support the preparation of this booklet.

### **2016 Revision – what's new?**

In 2012 Australia began to transition to a new international system used to classify and communicate chemical hazards: the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

The GHS will update the way in which information about the hazards of chemicals and any precautions necessary to ensure safe storage, handling and disposal, is conveyed to users of chemicals. The GHS uses pictograms, signal words, and hazard and precautionary statements to communicate this information.

There are some differences between the GHS and the previous system, in particular the criteria for determining whether a product is classified as hazardous may be different. This means that some of

the products that you are familiar with may change classification, or become classified as hazardous for the first time.

If you find that the classification of the products you use has changed, you may need to review your risk assessments and safe working practices to make sure that you can continue to use these products safely.

This publication has been made possible by the following companies:

- American Crew
- Aveda
- Clairol Professional
- Davines
- De Lorenzo Hair and Cosmetic Research
- D:FI
- Eksperience
- Framesi
- Fix
- Fudge
- Goldwell
- Intercosmo
- John Frieda
- Juuce
- Keune
- KMS
- Landoll
- Molton Brown
- Nak Hair
- Nashi
- Nisim
- Nioxin
- NYX
- Orofluido
- Pure
- Revlon Professional Brands
- Sebastian Professional
- Tigi
- Tressa
- Vitafive CPR
- Wella Professionals

## **A GUIDE TO THE SAFE USE OF SALON HAIR PRODUCTS**

The aim of this guide is to provide relevant information on hair products used in salons for you, the hairdresser to make an assessment of possible health and safety risks associated with storing and handling of these products in the environment in which you work.

The guide complies with the requirements of state and territory WHS legislation and related regulations.

The guide is not intended to be a complete encyclopaedia of safety information, rather, it is designed to highlight some of the most important points you should be aware of.

Your regular training, product label information, other safety information that is available to you and use of good judgement on the job will help you avoid injury to yourself, your clients and your fellow employees.

Within the workplace, the SDS is a recognised information source which underpins your overall risk management program to control exposure to hazardous and dangerous materials. The advice contained in the SDS includes information on health effects, exposure control, safe handling and storage, emergency procedures and disposal. For most workplace risk assessments required by WHS legislation, the SDS and the product label are the main information sources. SDSs may also be used as an integral part of your workplace training.

### **Are professional cosmetic products safe?**

A great deal of effort and resources are directed towards product safety on the part of manufacturers and regulators.

However, poor practice resulting in extended skin contact or respiratory exposure to particular products may cause ill health to some hair and beauty practitioners.

Cosmetic products are safe when used according to manufacturers' instructions and recommendations.

### **Listing of ingredients**

All cosmetic products manufactured or imported into Australia must be labelled with a list of ingredients. Listings are normally located on the back or side copy of packs offered for sale. In Australia all cosmetic products (including professional products) are required to list the product's ingredients in accordance with the Trade Practices (Consumer Products Information Standards) (Cosmetics) Regulations 1991. If you are unable to locate this information on the packs you currently use or offer for sale, contact your supplier or distributor and ask that the information be provided to you.

Ingredient lists inform about the substances present in the products. If you, or some of your clients are allergic to certain ingredients, a look at the list will tell you whether those ingredients are present in the product.

This information will help you and your clients avoid unwanted allergic reactions and/or to find products that do not present the potential for that problem. Ingredient names are listed according to a standardised international format and therefore should make no difference as to where the products are sourced from.

To help you avoid ingredients to which you or your clients may be allergic, make sure to find out from a doctor the chemical name or other commonly used names for that ingredient; then compare those names with those on the ingredients list. If you are unsure consult a doctor or the supplier to confirm one way or another.

## **Safety Data Sheets (SDS)**

It is a requirement of state and territory WHS legislation that a safety data sheet be prepared by the manufacturer or the supplier if the product being supplied is assessed as being a hazardous chemical.

This guide has attempted to cover the majority of products supplied to hairdressers and in so doing 19 product groups have been created. Some of the groups list the products contained within them as hazardous, others list the products as non-hazardous. Manufacturers have assessed all product groups and have prepared a SDS for each one of them.

In each case the information provided in the SDS should be read and clearly understood by everyone.

Please keep this guide available in the workplace for employees to look at whenever they wish.

## **What you can learn from a Safety Data Sheet (SDS)**

The SDS enables the user to answer some basic questions.

- a) What is the product I am about to use?
- b) What do I need to know before and while I use it?
- c) What do I do if a hazardous situation occurs?
- d) How can I prevent a hazardous situation from occurring?

The SDS will tell you how to safely handle the product so that you do not place yourself or others at risk. The SDS provides information to both workers and professionals to help them make decisions and to prevent or deal with emergencies. Such people may include managers, supervisors, transport drivers, the police, fire fighters, occupational hygienists, doctors, poisons information centres personnel, government authorities and so on.

These people will often need to know additional technical information associated with the product; information which is not often understood by personnel who have not had specialist training in that area.

For this reason some of the information in a SDS may appear too technical and unnecessary, but you are required by law to make sure all employees know what information is contained in the SDS and what it means for them.

## **THE SAFETY DATA SHEET – A PLAIN LANGUAGE EXPLANATION**

### **Section 1 - Material and supply company identification**

This section describes the product, trade and other associated names it may be known by and its proposed use.

### **Section 2 - Hazards Identification**

This section describes briefly the potential adverse effects of the product if not used correctly such as breathing in too much, or having the product splashed on to areas such as the skin or eyes, or if the product is swallowed. It also discusses if the product has any cancer causing effects.

Precautionary statements describe recommended steps that should be taken to minimise or prevent adverse effects resulting from accidental exposure, or improper storage or handling of a hazardous chemical.

**Section 3 - Composition Information** This section advises the hazardous chemicals that make up the product and the amount that may be found in each finished product.

#### **Section 4 - First Aid Measures**

This section details who you should call and what you should do if the product is inhaled or comes into contact with the skin or eyes, or is swallowed.

#### **Section 5 - Fire Fighting Measures**

This section deals with the effects the product may have if it is in a fire, and the firefighting equipment that may be used to deal with it.

#### **Section 6 - Accidental Release Measures**

This section discusses how to deal with a substance when there is a spill or if a container breaks.

#### **Section 7 - Handling and Storage**

This section discusses how, where and under which conditions the product may need to be stored and if there are any special requirements for handling the product during its use.

#### **Section 8 - Exposure Controls and Personal Protection**

This section deals with what safety equipment may be needed when using this product such as gloves or eyewear and the requirements for the area in which the product is being used, such as ventilation and air flow.

#### **Section 9 - Physical and Chemical Properties**

This section deals with the chemical properties of the product including the colour and odour that the product may have, also if the product is water soluble.

#### **Section 10 - Stability and Reactivity**

This section discusses what may happen over the life of the product and the conditions that it needs to be kept under and/or avoided.

#### **Section 11 - Toxicological Information**

This section discusses the effects the product may have on the body both short term and over a long period of use and the classification of any hazardous ingredients.

#### **Section 12 - Ecological Information**

This section indicates the effect that possible release or disposal of the product may have on the environment.

#### **Section 13 - Disposal Considerations**

This states how to dispose of any residue or waste product.



**Section 14 - Transport Information**

This section provides basic classification information for the transport of the product by road, rail, sea or air as required by relevant transport legislation.

**Section 15 - Regulatory Information**

This section states that all the materials used in the manufacture of the product are compliant with Australian legislation. It also deals with special requirements which may apply to individual ingredients.

**Section 16 - Other Information**

This is used for miscellaneous information.

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** FLAMMABLE PRODUCTS

**Recommended use:** Hair styling preparations, serums and tonics.

**Chemical Nature:** Blend of ingredients with a flammable solvent.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



### Signal Word

Danger

### Hazard Classification

Flammable Liquids – Category 2 or Category 3

Aspiration Hazard – Category 1

Serious Eye Damage/Irritation – Category 2A

Specific Target Organ Toxicity (Single Exposure) – Category 3

Acute Hazard to the Aquatic Environment – Category 1

Chronic Hazard to the Aquatic Environment – Category 2

### Hazard Statement(s)

H225	Highly flammable liquid and vapour (Category 2)
H226	Flammable liquid and vapour (Category 3)
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H410	Very toxic to aquatic life with long lasting effects

### Prevention Precautionary Statement(s)

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, lighting and all other equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust, fume, gas, mist, vapours or spray.
P264	Wash hands, face and all exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing, gloves, eye/face protection and suitable respirator.

**Response Precautionary Statement(s)**

P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

**Storage Precautionary Statement(s)**

P405	Store locked up
P403+233	Store in a well ventilated place. Keep container tightly closed

**Disposal Precautionary Statement(s)**

P501	Dispose of contents/container in accordance with local, regional, national and international regulations
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**Poisons Schedule (Australia):** Not applicable

**NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**Class:** 3 Flammable Liquid

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Ethanol	64-17-5	5 - 95%
Isopropanol	67-63-0	25 - 95%
Dimethylcyclopolysiloxane (cyclomethicone)	69430-24-6	25 - 95%
Isododecane	31807-55-3	25 - 95%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a wide variety of products based on one of the solvents listed above, and thus is flammable.

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

#### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** Refer to Supplier's SDS.

**Suitable extinguishing media:** If material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Flammable liquid. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. Do NOT smoke.

**Firefighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

#### 6. ACCIDENTAL RELEASE MEASURES

##### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

**LARGE SPILLS**

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No: 14**

**7. HANDLING AND STORAGE**

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 3 Flammable Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) -TWA		(WES) - STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Ethanol	1000	1880	-	-	-	-
Isopropanol	400	983	500	1230	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

**Definitions**

**TWA** - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

**WES-TWA** (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

**STEL** (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

**WES-STEL** (Workplace Exposure Standard - Short-Term Exposure Limit). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** When handling individual retail packs no personal protection equipment is required. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems:

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation. The use of exhaust fans is strongly recommended. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR

Wear overalls, chemical goggles and impervious gloves. If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from natural rubber/polyvinyl chloride (PVC) should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Clear pale yellow liquids, with a mild or characteristic odour.

<b>Solubility:</b>	Usually soluble. If based on isododecane, will be insoluble.
<b>Specific Gravity (20 °C):</b>	0.82 – 0.93
<b>Relative Vapour Density (air=1):</b>	N Av
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	<61
<b>Flammability Limits (%):</b>	N Av
<b>Autoignition Temperature (°C):</b>	N Av
<b>Melting Point/Range (°C):</b>	N Av
<b>pH:</b>	N Av
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)  
N Av = Not available                      N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition. This product should be kept in a cool place, preferably below 30°C.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

**Skin contact:** Contact with skin may result in irritation. Unlikely to cause anything more than mild discomfort which should disappear once contact ceases.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. May cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema.

**Eye contact:** An eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. Lengthy exposure or delayed treatment may cause permanent damage.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser.  
Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as a Category 1 Hazard.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in depression of the central nervous system.

#### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as a Category Acute 1 Hazard. Acute toxicity estimate (based on ingredients): <1 mg/L

**Long-term aquatic hazard:** This material has been classified as a Category Chronic 2 Hazard. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is readily biodegradable.

**Bioaccumulative potential:** Risk of bioaccumulation in an aquatic species is low.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

<b>UN No:</b>	Refer to Supplier's SDS
<b>Dangerous Goods Class:</b>	3 Flammable liquid
<b>Packing Group:</b>	II or III
<b>Hazchem Code:</b>	Refer to Supplier's SDS



**Emergency Response Guide No:** 14

**Proper Shipping Name:** Refer to Supplier's SDS

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

#### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**UN No:** Refer to Supplier's SDS  
**Dangerous Goods Class:** 3 Flammable liquid  
**Packing Group:** II or III

**Proper Shipping Name:** Refer to Supplier's SDS

#### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** Refer to Supplier's SDS  
**Dangerous Goods Class:** 3 Flammable liquid  
**Packing Group:** II or III

**Proper Shipping Name:** Refer to Supplier's SDS

**Note:** This product group may use several different UN numbers, Hazchem codes and Proper Shipping Names. Please refer to the Supplier's SDS for this information.

### 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material is subject to the following international agreements:**

Basel Convention (Hazardous Waste)

- Organic solvents excluding halogenated solvents

**This material/constituent(s) is covered by the following requirements:**

- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

## 16. OTHER INFORMATION

### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** PEROXIDE SOLUTIONS, 8 – 12%

**Recommended use:** Salon product used to mix with hair colours or bleaching products.

**Chemical nature:** Water solution of hydrogen peroxide.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



#### Signal Word

Danger

#### Hazard Classification

Serious Eye Damage/Irritation – Category 1

Acute Toxicity – Oral – Category 5

#### Hazard Statement(s)

H303 May be harmful if swallowed.

H318 Causes serious eye damage

#### Prevention Precautionary Statement(s)

P102 Keep out of reach of children

P103 Read label before use

P280 Wear protective clothing, gloves, eye/face protection and suitable respirator

#### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P310 Immediately call a POISON CENTER or doctor/physician

#### Storage Precautionary Statement(s)

Not allocated

#### Disposal Precautionary Statement(s)

Not allocated

**Poisons Schedule (Australia):** S6

### NEW ZEALAND CLASSIFICATION

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail”.

**Class:** 5.1 Oxidising Agent

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Hydrogen peroxide	7722-84-1	8 - 12%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

**4. FIRST AID MEASURES**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye contact:** Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically. Can cause corneal burns.

## 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** 2R

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Oxidising substance. Non-combustible, but will support combustion of other materials.

**Firefighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Absorb onto suitable absorbent material like vermiculite, sand or kitty litter (but nothing that is combustible like sawdust, rags or paper). Sweep up and shovel or collect recoverable product, and dispose of promptly. After sweeping up, wash area with water. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

### LARGE SPILLS

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** 31

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour. Refer to section 8 for personal protective equipment guidelines.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 5.1 Oxidising Substance as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES)-TWA		(WES)-STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Hydrogen peroxide	1	1.4	-	-	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

**Definitions**

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

WES-TWA (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** It is recommended that eye protection (safety glasses or goggles) and protective gloves are worn when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation. The use of exhaust fans is strongly recommended. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.

Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from natural rubber or PVC should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid skin and eye contact and inhalation of vapour. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Clear colourless or creamy white liquid, odourless.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	1.03 – 1.05
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	N App
<b>Flammability Limits (%):</b>	N Av
<b>Autoignition Temperature (°C):</b>	N Av
<b>Melting Point/Range (°C):</b>	Approx. 0
<b>Boiling Point/Range (°C):</b>	Approx. 100
<b>pH:</b>	2 – 4 (mildly acidic)
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** Slowly decomposes to water and oxygen gas - decomposition is faster in warm conditions or if the bottle is in direct sunlight. This product must not be mixed with alkaline perm products as a strong reaction will take place, causing the mixture to heat strongly. This may lead to burns to either the salon worker or the customer.

**Chemical stability:** This material is thermally unstable.

**Hazardous reactions:** Reacts with alkaline materials.

**Conditions to avoid:** This product should be kept in a cool place, preferably below 30°C. Keep containers and surrounding areas well ventilated. Keep isolated from combustible materials. Protect this product from light.

**Incompatible materials:** Reducing agents and combustible materials.

**Hazardous decomposition products:** Oxygen gas. These products are likely to decompose only after heating to dryness, followed by further strong heating.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin may result in irritation. Symptoms may include itchiness and bleaching of contacted skin.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. Symptoms may include burning sensation and reddening of skin in mouth and throat.

**Eye contact:** A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

#### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 5 Hazard. Acute toxicity estimate (based on ingredients): 2,000 – 5,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Skin: this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

#### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >100 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is readily biodegradable.

**Bioaccumulative potential:** Risk of bioaccumulation in an aquatic species is low.

**Mobility:** No information available.



### 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see “Section 8. Exposure Controls and Personal Protection” of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

### 14. TRANSPORT INFORMATION

#### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail”.

**UN No:** 2984  
**Dangerous Goods Class:** 5.1  
**Packing Group:** III  
**Hazchem Code:** 2R  
**Emergency Response Guide No:** 31

**Proper Shipping Name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), toxic gases (Class 2.3), flammable liquids (Class 3), flammable solids (Class 4.1), spontaneously combustible substances (Class 4.2), dangerous when wet substances (Class 4.3), organic peroxides (Class 5.2), radioactive substances (Class 7), corrosive substances (Class 8), fire risk substances or combustible liquids, however exemptions may apply. Also note that fire risk substances including dangerous goods of Class 6 or Class 9, which are fire risk substances, are incompatible with dangerous goods of Class 1, Class 5.1 and Class 5.2.

#### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**UN No:** 2984  
**Dangerous Goods Class:** 5.1  
**Packing Group:** III

**Proper Shipping Name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION

#### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 2984  
**Dangerous Goods Class:** 5.1  
**Packing Group:** III

**Proper Shipping Name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)

**This material is subject to the following international agreements:**

Basel Convention (Hazardous Waste)

- Acidic solutions or acids in solid form

International Convention for the Prevention of Pollution from Ships (MARPOL)

- Annex II - Noxious Liquid Substances carried in Bulk

**This material/constituent(s) is covered by the following requirements:**

- The Standard for the *Uniform Scheduling of Medicines and Poisons (SUSMP)* established under the *Therapeutic Goods Act (Commonwealth)*.
- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

## 16. OTHER INFORMATION

### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd ([chemdata.com.au](http://chemdata.com.au)) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

**1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION**

**Product name:** Refer to individual company's name

**Other names:** BLEACH POWDERS AND CREAMS

**Recommended use:** When mixed with solutions containing hydrogen peroxide, bleaches or lightens the colour of hair.

**Chemical Nature:** Blend of oxidising persulfate salts, alkaline salts and other ingredients.

**2. HAZARDS IDENTIFICATION****AUSTRALIA CLASSIFICATION**

This material is hazardous according to criteria of Safe Work Australia.

**Signal Word**

Danger

**Hazard Classification**

Oxidising Solids – Category 3

Acute Toxicity – Oral – Category 4

Skin Corrosion/Irritation – Category 2

Serious Eye Damage/Irritation – Category 2A

Sensitisation – Respiratory – Category 1

Sensitisation – Skin – Category 1

Specific Target Organ Toxicity (Single Exposure) – Category 3

**Hazard Statement(s)**

H272 May intensify fire; oxidizer

H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

**Prevention Precautionary Statement(s)**

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

P264 Wash hands, face and all exposed skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

P285 In case of inadequate ventilation wear respiratory protection.

**Response Precautionary Statement(s)**

P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

**Storage Precautionary Statement(s)**

P405	Store locked up
P403+233	Store in a well ventilated place. Keep container tightly closed

**Disposal Precautionary Statement(s)**

P501	Dispose of contents/container in accordance with local, regional, national and international regulations
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**Poisons Schedule (Australia):** S6

**NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Please refer to Supplier's SDS for Dangerous Goods classification. Some products are not classified as Dangerous Goods and some are classified as Dangerous Goods Class 5.1 Oxidising Agent.

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Ammonium persulfate	7727-54-0	<70%
Sodium persulfate	7775-27-1	<70%
Potassium persulfate	7727-21-1	<70%
Sodium silicate	1344-09-8	<25%
Sodium metasilicate	6834-92-0	<25%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

#### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Effects may be delayed. Seek medical advice.

**Skin contact:** If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Avoid generating and inhaling dusts. If dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:** Treat symptomatically. Effects may be delayed.

#### 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** Refer to Supplier's SDS.

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material. Oxidising substance. If involved in a fire, may intensify the fire.

**Firefighting further advice:** Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

#### 6. ACCIDENTAL RELEASE MEASURES

##### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of dust. Collect and seal in properly labelled containers or drums for disposal. Do not clean up small spills with rags or paper.

##### LARGE SPILLS

Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** Refer to Supplier’s SDS.

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of dust.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

Please refer to Supplier’s SDS for Dangerous Goods classification. Some products are not classified as Dangerous Goods and some are classified as Dangerous Goods Class 5.1 Oxidising Agent.

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	TWA		STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m3	ppm	mg/m3		
Ammonium, potassium or sodium persulfate	-	0.1 (Peak Limitation)				

As published by Safe Work Australia.

### Definitions

**TWA** - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

**Peak Limitation** - a ceiling concentration that should not be exceeded over a measurement period, which should be as short as possible, but not exceeding 15 minutes.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Avoid generating and inhaling dusts. Use with local exhaust ventilation or while wearing dust mask. The use of exhaust fans is strongly recommended. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, DUST MASK.

Wear overalls, chemical goggles and impervious gloves. Avoid generating and inhaling dusts. If dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of dust.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Fine to granular white powder, odourless.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	N Av
<b>Relative Vapour Density (air=1):</b>	N App
<b>Vapour Pressure (20 °C):</b>	N App
<b>Flash Point (°C):</b>	N App
<b>Flammability Limits (%):</b>	N Av
<b>Autoignition Temperature (°C):</b>	N App
<b>Melting Point/Range (°C):</b>	N Av
<b>Boiling Point/Range (°C):</b>	N Av
<b>pH:</b>	When mixed with peroxide solutions, 9 -10. However, as supplied, will give a pH higher than this.
<b>Viscosity:</b>	N App

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** If involved in a fire, material may increase fire's intensity.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** This product must not be mixed with hydrogen peroxide products as a strong reaction will take place, causing the mixture to heat strongly. This may lead to burns to either the salon worker or the customer.

**Conditions to avoid:** No known conditions to avoid.

**Incompatible materials:** Combustible materials and reducing agents.

**Hazardous decomposition products:** No known hazardous decomposition products.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material is an irritant to mucous membranes and respiratory tract. A respiratory sensitiser. Can cause possible allergic reactions.

**Skin contact:** Contact with skin will result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Ingestion:** Harmful if swallowed. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** An eye irritant.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (irritant to skin).

**Sensitisation:** Inhalation: this material has been classified as a Category 1 Hazard (respiratory sensitiser). Skin: this material has been classified as a Category 1 Hazard (skin sensitiser).

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in respiratory irritation

### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.



## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Please refer to Supplier's SDS for Dangerous Goods classification. Some products are not classified as Dangerous Goods and some are classified as Dangerous Goods Class 5.1 Oxidising Agent.

### MARINE TRANSPORT

Please refer to Supplier's SDS for Dangerous Goods classification. Some products are not classified as Dangerous Goods and some are classified as Dangerous Goods Class 5.1 Oxidising Agent.

### AIR TRANSPORT

Please refer to Supplier's SDS for Dangerous Goods classification. Some products are not classified as Dangerous Goods and some are classified as Dangerous Goods Class 5.1 Oxidising Agent.

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (Persistent Organic Pollutants)

The Rotterdam Convention (Prior Informed Consent)

Basel Convention (Hazardous Waste)

International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material/constituent(s) is covered by the following requirements:**

- The Standard for the *Uniform Scheduling of Medicines and Poisons (SUSMP)* established under the *Therapeutic Goods Act (Commonwealth)*.
- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the *Industrial Chemicals Notification and Assessment (ICNA) Act*.

<b>16. OTHER INFORMATION</b>
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**Literary reference**

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** PEROXIDE SOLUTIONS, LESS THAN 8%

**Recommended use:** Salon product used to mix with hair colours or bleaching products as developers or with permanent waves as neutralisers.

**Chemical nature:** Water solution of hydrogen peroxide.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



#### Signal Word

Warning

#### Hazard Classification

Serious Eye Damage/Irritation – Category 2A

#### Hazard Statement(s)

H319 Causes serious eye irritation

#### Prevention Precautionary Statement(s)

P102 Keep out of reach of children

P103 Read label before use

P264 Wash hands, face and all exposed skin thoroughly after handling.

P280 Wear protective clothing, gloves, eye/face protection and suitable respirator

#### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P337+P313 If eye irritation persists: Get medical advice/attention.

#### Storage Precautionary Statement(s)

Not allocated

#### Disposal Precautionary Statement(s)

Not allocated

**Note:** the serious eye irritation category 2A classification only applies to concentrations of 5 – 8% hydrogen peroxide.

**Poisons Schedule (Australia):** S5

**NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Hydrogen peroxide	7722-84-1	<8%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

**4. FIRST AID MEASURES**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible, but will support combustion of other materials.

**Firefighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

**6. ACCIDENTAL RELEASE MEASURES****SMALL SPILLS**

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Absorb onto suitable absorbent material like vermiculite, sand or kitty litter (but nothing that is combustible like sawdust, rags or paper). Sweep up and shovel or collect recoverable product, and dispose of promptly. After sweeping up, wash area with water. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

**LARGE SPILLS**

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** Not applicable.

**7. HANDLING AND STORAGE**

**Handling:** Avoid skin and eye contact and inhalation of vapour. Refer to section 8 for personal protective equipment guidelines.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) - TWA		(WES) - STEL		CARCINOGEN	NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	CATEGORY	
Hydrogen peroxide	1	1.4	-	-	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

### Definitions

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

WES-TWA (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** It is recommended that eye protection (safety glasses or goggles) and protective gloves are worn when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation. The use of exhaust fans is strongly recommended. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.

Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from natural rubber or PVC should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid skin and eye contact and inhalation of vapour. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Clear colourless or creamy white liquid, odourless.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	1.01 – 1.03
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	N App
<b>Flammability Limits (%):</b>	N Av
<b>Autoignition Temperature (°C):</b>	N Av

<b>Melting Point/Range (°C):</b>	Approx. 0
<b>Boiling Point/Range (°C):</b>	Approx. 100
<b>pH:</b>	2 – 4 (mildly acidic)
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** Slowly decomposes to water and oxygen gas - decomposition is faster in warm conditions or if the bottle is in direct sunlight. This product must not be mixed with alkaline perm products as a strong reaction will take place, causing the mixture to heat strongly. This may lead to burns to either the salon worker or the customer.

**Chemical stability:** This material is thermally unstable.

**Hazardous reactions:** Reacts with alkaline materials.

**Conditions to avoid:** This product should be kept in a cool place, preferably below 30°C. Keep containers and surrounding areas well ventilated. Keep isolated from combustible materials. Protect this product from light.

**Incompatible materials:** Reducing agents and combustible materials.

**Hazardous decomposition products:** Oxygen gas. These products are likely to decompose only after heating to dryness, followed by further strong heating.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin may result in irritation. Symptoms may include itchiness and bleaching of contacted skin.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. Symptoms may include burning sensation and reddening of skin in mouth and throat.

**Eye contact:** An eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. Lengthy exposure or delayed treatment may cause permanent damage.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser.

Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is readily biodegradable.

**Bioaccumulative potential:** Risk of bioaccumulation in an aquatic species is low.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.



## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

### This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

### This material/constituent(s) is covered by the following requirements:

- The Standard for the *Uniform Scheduling of Medicines and Poisons (SUSMP)* established under the *Therapeutic Goods Act (Commonwealth)*.
- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

## 16. OTHER INFORMATION

### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** HAIR STYLING PRODUCTS

**Recommended use:** Products including (but not limited to) muds, gels, waxes, fudges, clays and pomades.

**Chemical Nature:** Water solution of surfactants and other minor ingredients

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



#### Signal Word

Warning

#### Hazard Classification

Serious Eye Damage/Irritation – Category 2A

#### Hazard Statement(s)

H319 Causes serious eye irritation

#### Prevention Precautionary Statement(s)

P102 Keep out of reach of children

P103 Read label before use

P264 Wash hands, face and all exposed skin thoroughly after handling

P280 Wear protective clothing, gloves and eye/face protection

#### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

#### Storage Precautionary Statement(s)

Not allocated

#### Disposal Precautionary Statement(s)

P501 Dispose of contents/container in accordance with local, regional, national and international regulations

**Poisons Schedule (Australia):** Not applicable

### NEW ZEALAND CLASSIFICATION

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Emulsifiers or surfactants	-	<5%
Ingredients determined to be non-hazardous	-	Balance
		100%

**4. FIRST AID MEASURES**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material.

**Firefighting further advice:** Not combustible, however following evaporation of aqueous component residual material can burn if ignited. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** Not applicable.

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Natural ventilation should be adequate under normal use conditions.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form / Colour / Odour:** Viscous liquids, waxes and pastes of various colours and degrees of opacity, various fragrances

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	0.95 - 1.10
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	N App
<b>Flammability Limits (%):</b>	N Av
<b>Autoignition Temperature (°C):</b>	N Av
<b>Melting Point/Range (°C):</b>	Approx. 0
<b>Boiling Point/Range (°C):</b>	Approx. 100
<b>pH:</b>	3.0 – 8.0
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

**10. STABILITY AND REACTIVITY**

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

**Incompatible materials:** No known materials to avoid.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

**11. TOXICOLOGICAL INFORMATION**

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Acute Effects**

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin may result in irritation.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** An eye irritant.

**Acute toxicity**

**Inhalation:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

#### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways. No data available for the product. However, for the constituent:

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

#### 14. TRANSPORT INFORMATION

##### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

##### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

##### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

#### 15. REGULATORY INFORMATION

##### This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

##### This material/constituent(s) is covered by the following requirements:

- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

#### 16. OTHER INFORMATION

##### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** ACID PERMS (ESTER-FREE)

**Recommended use:** Permanent waving of hair.

**Chemical Nature:** Water solution of ingredients

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



#### Signal Word

Warning

#### Hazard Classification

Acute Toxicity – Oral – Category 4

Acute Toxicity – Dermal – Category 5

Acute Toxicity – Inhalation – Category 4

Skin Corrosion/Irritation – Category 2

Serious Eye Damage/Irritation – Category 2A

Sensitisation – Skin – Category 1

#### Hazard Statement(s)

H302 Harmful if swallowed  
H313 May be harmful in contact with skin.  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
H332 Harmful If Inhaled

#### Prevention Precautionary Statement(s)

P102 Keep out of reach of children  
P103 Read label before use  
P261 Avoid breathing dust, fume, gas, mist, vapours or spray  
P264 Wash hands, face and all exposed skin thoroughly after handling  
P270 Do not eat, drink or smoke when using this product  
P271 Use only outdoors or in a well-ventilated area  
P272 Contaminated work clothing should not be allowed out of the workplace  
P280 Wear protective clothing, gloves, eye/face protection and a suitable respirator

#### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.



P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P362 Take off contaminated clothing and wash before reuse.

**Storage Precautionary Statement(s)**

Not allocated

**Disposal Precautionary Statement(s)**

P501 Dispose of contents/container in accordance with local, regional, national and international regulations

**Poisons Schedule (Australia): S5**

**NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Ammonia	1336-21-6	<0.5%
Hydrogen peroxide	7722-84-1	<3%
Thioglycolic acid, ammonium salt*	5421-46-5	<11%
Thiolactic acid*	79-42-5	<10%
Thiolactic acid, ammonium salt*	13419-67-5	<22%
Ingredients determined to be non-hazardous	-	Balance
		100%

\* These concentrations show what is present after mixing. However, as the activator concentrate, they are present at somewhat higher concentrations - as high as 60% of the concentrate mixture.

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

#### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically. Effects may be delayed.

#### 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material.

**Firefighting further advice:** Not combustible, however following evaporation of aqueous component residual material can burn if ignited. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

#### 6. ACCIDENTAL RELEASE MEASURES

##### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Collect and seal in properly labelled containers or drums for disposal.

##### LARGE SPILLS

Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye

contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** Not applicable.

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) - TWA		(WES) - STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m3	ppm	mg/m3		
Ammonia	25	17	35	24	-	-
Hydrogen peroxide	1	1.4	-	-	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

### Definitions

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

WES-TWA (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

WES-STEL (Workplace Exposure Standard - Short-Term Exposure Limit). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

No Exposure Standards assigned to other constituents.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. The use of exhaust fans is strongly recommended. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.

Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Coloured liquids with characteristic odours.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	1.00 – 1.05
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	N App
<b>Flammability Limits (%):</b>	N Av
<b>Autoignition Temperature (°C):</b>	N App
<b>Melting Point/Range (°C):</b>	Approx. 0
<b>Boiling Point/Range (°C):</b>	Approx. 100
<b>pH:</b>	7 – 8 (when mixed)
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition. This product should be kept in a cool place, preferably below 30°C. Store away from combustible materials.

**Incompatible materials:** Reducing agents and combustible materials.

**Hazardous decomposition products:** Oxides of carbon, nitrogen and sulphur, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin may result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** An eye irritant.

### Acute toxicity

**Inhalation:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 1 - 5 mg/L

**Skin contact:** This material has been classified as a Category 5 Hazard. Acute toxicity estimate (based on ingredients): 2,000 – 5,000 mg/Kg

**Ingestion:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (irritant to skin).

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1 (6.5B NZ) Hazard (skin sensitiser).

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material/constituent(s) is covered by the following requirements:**

- The Standard for the *Uniform Scheduling of Medicines and Poisons (SUSMP)* established under the *Therapeutic Goods Act (Commonwealth)*.
- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

## 16. OTHER INFORMATION

### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** ALKALINE PERMS AND RELAXERS

**Recommended use:** In-salon preparation for permanent waving of hair.

**Chemical Nature:** Water solution of ingredients.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



#### Signal Word

Warning

#### Hazard Classification

Acute Toxicity – Oral – Category 4

Skin Corrosion/Irritation – Category 2

Serious Eye Damage/Irritation – Category 2A

Sensitisation – Respiratory – Category 1

#### Hazard Statement(s)

H302 Harmful if swallowed  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation

#### Prevention Precautionary Statement(s)

P102 Keep out of reach of children  
P103 Read label before use  
P261 Avoid breathing fume, gas, mist, vapours or spray  
P264 Wash hands, face and all exposed skin thoroughly after handling  
P270 Do not eat, drink or smoke when using this product  
P272 Contaminated work clothing should not be allowed out of the workplace  
P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

#### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.



**Storage Precautionary Statement(s)**

None allocated

**Disposal Precautionary Statement(s)**

P501 Dispose of contents/container in accordance with local, regional, national and international regulations

**Poisons Schedule (Australia): S5****NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552**DANGEROUS GOODS CLASSIFICATION**

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road &amp; Rail".

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Ammonia	1336-21-6	<2%
Hydrogen peroxide	7722-84-1	<3%
Thioglycolic acid, monoammonium salt	5421-46-5	<12%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

**4. FIRST AID MEASURES**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically. Effects may be delayed.

## 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material.

**Firefighting further advice:** Not combustible, however following evaporation of aqueous component residual material can burn if ignited. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** Not applicable.

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) -TWA		(WES) - STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m3	ppm	mg/m3		
Ammonia	25	17	35	24	-	-
Hydrogen peroxide	1	1.4	-	-	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

### Definitions

**TWA** - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

**STEL (Short Term Exposure Limit)** - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

**WES-TWA (Workplace Exposure Standard – Time-weighted Average)**. The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

**WES-STEL (Workplace Exposure Standard - Short-Term Exposure Limit)**. The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

### Biological Limit Values:

As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Note:** No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. The use of exhaust fans is strongly recommended. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES. Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating,

drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Coloured liquid, with a characteristic odour.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	1.03 – 1.05
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	N App
<b>Flammability Limits (%):</b>	N Av
<b>Autoignition Temperature (°C):</b>	N App
<b>Melting Point/Range (°C):</b>	Approx. 0
<b>Boiling Point/Range (°C):</b>	Approx. 100
<b>pH:</b>	8.0 - 9.5
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** This product should be kept in a cool place, preferably below 30°C. Protect this product from light.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, sulphur, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

#### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin will result in irritation.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** An eye irritant.

#### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 4 Hazard.  
Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (irritant to skin).

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1 Hazard (skin sensitiser).

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

#### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is readily biodegradable.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

### 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

### 14. TRANSPORT INFORMATION

#### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

#### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

#### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

### 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material/constituent(s) is covered by the following requirements:**

- The Standard for the *Uniform Scheduling of Medicines and Poisons (SUSMP)* established under the *Therapeutic Goods Act (Commonwealth)*.
- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

### 16. OTHER INFORMATION

**Literary reference**

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** HAIR COLOURS (FLAMMABLE LIQUIDS)

**Recommended use:** Hair colouring preparations

**Chemical Nature:** Blend of ingredients; solvent is flammable.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



### Signal Word

Danger

### Hazard Classification

Flammable Liquids – Category 3

Acute Toxicity – Oral – Category 5

Skin Corrosion/Irritation – Category 2

Serious Eye Damage/Irritation – Category 1

Sensitisation – Skin – Category 1

Specific Target Organ Toxicity (Single Exposure) – Category 2

Specific Target Organ Toxicity (Single Exposure) – Category 3 – Narcotic Effects

### Hazard Statement(s)

H226	Flammable liquid and vapour
H303	May be harmful if swallowed.
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H336	May cause drowsiness or dizziness
H371	May cause damage to organs

### Prevention Precautionary Statement(s)

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, lighting and all other equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust, fume, gas, mist, vapours or spray.
P264	Wash hands, face and all exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective clothing, gloves, eye/face protection and suitable respirator



**Response Precautionary Statement(s)**

- P101 If medical advice is needed, have product container or label at hand.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P362 Take off contaminated clothing and wash before reuse.

**Storage Precautionary Statement(s)**

- P405 Store locked up
- P403+235 Store in a well ventilated place. Keep cool

**Disposal Precautionary Statement(s)**

- P501 Dispose of contents/container in accordance with local, regional, national and international regulations

**Poisons Schedule (Australia): S5**

WARNING – This product contains ingredients which may cause skin sensitization and / or irritation to certain individuals, and when used for eyelash or eyebrow tinting may cause injury to the eye. A preliminary test according to the accompanying directions should be made before use.

**NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail”.

**Class:** 3 Flammable Liquid

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Ethanol	64-17-5	<60%
Isopropanol	67-63-0	<60%
Ammonia	1336-21-6	<2%
Ethanolamine	141-43-5	<5%
Resorcinol	108-46-3	<2%
Phenylenediamines	-	<2%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

#### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

**Eye contact:** Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically. Effects may be delayed.

#### 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** •3Y

**Suitable extinguishing media:** If material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Flammable liquid. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. Do NOT smoke.

**Firefighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

**6. ACCIDENTAL RELEASE MEASURES****SMALL SPILLS**

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

**LARGE SPILLS**

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No: 14**

**7. HANDLING AND STORAGE**

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 3 Flammable Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) - TWA		(WES) - STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Ammonia	25	17	35	24	-	-
Ethanol	1000	1880	-	-	-	-
Isopropanol	400	983	500	1230	-	-
Ethanolamine	3	7.5	6	15	-	-
Resorcinol	10	45	20	90	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

**Definitions**

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

WES-TWA (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

WES-STEL (Workplace Exposure Standard - Short-Term Exposure Limit). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. The use of exhaust fans is strongly recommended. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR

Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Coloured liquids, with a characteristic odour.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	0.85 – 1.0
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	23 - 61

Flammability Limits (%):	N Av
Autoignition Temperature (°C):	N Av
Melting Point/Range (°C):	N Av
Boiling Point/Range (°C):	N Av
pH:	5.0 – 11.7
Viscosity:	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

**Skin contact:** Contact with skin will result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 5 Hazard. Acute toxicity estimate (based on ingredients): 2,000 – 5,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (irritant to skin).

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1 Hazard (skin sensitiser).

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 2 Hazard. Exposure via oral may result in adverse effects on blood and the central nervous system. This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in depression of the central nervous system.

#### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is readily biodegradable.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**UN No:** 1993  
**Dangerous Goods Class:** 3 Flammable Liquid  
**Packing Group:** III  
**Hazchem Code:** •3Y  
**Emergency Response Guide No:** 14

**Proper Shipping Name:** Flammable Liquid, N.O.S.

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**UN No:** 1993  
**Dangerous Goods Class:** 3 Flammable Liquid  
**Packing Group:** III

**Proper Shipping Name:** Flammable Liquid, N.O.S.

### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 1993  
**Dangerous Goods Class:** 3 Flammable Liquid  
**Packing Group:** III

**Proper Shipping Name:** Flammable Liquid, N.O.S.

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material is subject to the following international agreements:**

Basel Convention (Hazardous Waste)

- Organic solvents excluding halogenated solvents

**This material/constituent(s) is covered by the following requirements:**

- The Standard for the *Uniform Scheduling of Medicines and Poisons (SUSMP)* established under the *Therapeutic Goods Act (Commonwealth)*.
- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

<b>16. OTHER INFORMATION</b>
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**Literary reference**

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**



## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** HAIR COLOURS (FLAMMABLE LIQUIDS – CLASS 8)

**Recommended use:** Hair colouring preparations

**Chemical Nature:** Blend of ingredients; solvent is flammable.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



### Signal Word

Danger

### Hazard Classification

Flammable Liquids – Category 2

Acute Toxicity – Oral – Category 5

Skin Corrosion/Irritation – Category 1C

Serious Eye Damage/Irritation – Category 1

Sensitisation – Skin – Category 1

Specific Target Organ Toxicity (Single Exposure) – Category 2

Specific Target Organ Toxicity (Single Exposure) – Category 3 – Respiratory Tract Irritant

Specific Target Organ Toxicity (Single Exposure) – Category 3 – Narcotic

### Hazard Statement(s)

H225	Highly flammable liquid and vapour
H303	May be harmful if swallowed.
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation
H336	May cause drowsiness and dizziness
H371	May cause damage to organs

### Prevention Precautionary Statement(s)

P102	Keep out of reach of children
P103	Read label before use
P210	Keep away from all sources of ignition - No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical, ventilating, lighting and all other equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe dust, fume, gas, mist, vapours or spray
P264	Wash hands, face and all exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area

P272 Contaminated work clothing should not be allowed out of the workplace  
P280 Wear protective clothing, gloves, eye/face protection and suitable respirator

**Response Precautionary Statement(s)**

P101 If medical advice is needed, have product container or label at hand.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P363 Wash contaminated clothing before reuse.

**Storage Precautionary Statement(s)**

P405 Store locked up  
P403+235 Store in a well ventilated place. Keep cool

**Disposal Precautionary Statement(s)**

P501 Dispose of contents/container in accordance with local, regional, national and international regulations

**Poisons Schedule (Australia): S5**

WARNING – This product contains ingredients which may cause skin sensitization and / or irritation to certain individuals, and when used for eyelash or eyebrow tinting may cause injury to the eye. A preliminary test according to the accompanying directions should be made before use.

**NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail”.

**Class:** 3 Flammable Liquid  
**Sub risk:** 8 Corrosive

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Ethanol	64-17-5	<60%
Isopropanol	67-63-0	<60%
Ammonia	1336-21-6	<2%
Ethanolamine	141-43-5	5 - 10%
Resorcinol	108-46-3	<2%
Phenylenediamines	-	<2%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

**4. FIRST AID MEASURES**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice.

**Skin contact:** If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital. For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

**Eye contact:** Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

**Ingestion:** Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Get to a doctor or hospital quickly.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically. Effects may be delayed. Can cause corneal burns.

## 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** •3WE

**Suitable extinguishing media:** If material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Flammable liquid. Corrosive substance. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. Do NOT smoke.

**Firefighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No: 18**

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 3 Flammable Liquid, Sub risk 8 Corrosive as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) - TWA		(WES) - STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Ammonia	25	17	35	24	-	-
Ethanol	1000	1880	-	-	-	-
Isopropanol	400	983	500	1230	-	-
Ethanolamine	3	7.5	6	15	-	-
Resorcinol	10	45	20	90	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

### Definitions

**TWA** - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

**STEL** (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

**WES-TWA** (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

**WES-STEL** (Workplace Exposure Standard - Short-Term Exposure Limit). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** It is recommended that eye protection (safety glasses or goggles) and protective gloves are worn when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. The use of exhaust fans is strongly recommended. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR

Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Coloured liquids, with a characteristic odour.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	0.85 – 1.0
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	23 - 61
<b>Flammability Limits (%):</b>	N Av
<b>Autoignition Temperature (°C):</b>	N Av
<b>Melting Point/Range (°C):</b>	N Av
<b>Boiling Point/Range (°C):</b>	N Av
<b>pH:</b>	5.0 – 11.7
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material is an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

**Skin contact:** Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Ingestion:** Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

**Eye contact:** A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

#### **Acute toxicity**

**Inhalation:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 5 Hazard. Acute toxicity estimate (based on ingredients): 2,000 – 5,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Skin: this material has been classified as a Category 1C Hazard (corrosive to skin).

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1 Hazard (skin sensitiser).

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 2 Hazard. Exposure via oral may result in adverse effects on blood and the central nervous system. This material has been classified as a Category 3 Hazard (AU only). Exposure via inhalation may result in respiratory irritation and depression of the central nervous system.

#### **Chronic Toxicity**

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## **12. ECOLOGICAL INFORMATION**

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is readily biodegradable.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

### 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see “Section 8. Exposure Controls and Personal Protection” of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

### 14. TRANSPORT INFORMATION

#### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail”.

**UN No:** 2924  
**Dangerous Goods Class:** 3 Flammable Liquid  
**Sub risk 1:** 8 Corrosive  
**Packing Group:** II  
**Hazchem Code:** •3WE  
**Emergency Response Guide No:** 18

**Proper Shipping Name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S.

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1), infectious substances (Class 6.2) or radioactive substances (Class 7). Exemptions may apply.

#### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**UN No:** 2924  
**Dangerous Goods Class:** 3 Flammable Liquid  
**Sub risk 1:** 8 Corrosive  
**Packing Group:** II

**Proper Shipping Name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S.

#### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 2924  
**Dangerous Goods Class:** 3 Flammable Liquid



Sub risk 1: 8 Corrosive

Packing Group: II

Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)

**This material is subject to the following international agreements:**

Basel Convention (Hazardous Waste)

- Organic solvents excluding halogenated solvents

International Convention for the Prevention of Pollution from Ships (MARPOL)

- Annex II - Noxious Liquid Substances carried in Bulk

**This material/constituent(s) is covered by the following requirements:**

- The Standard for the *Uniform Scheduling of Medicines and Poisons (SUSMP)* established under the *Therapeutic Goods Act (Commonwealth)*.
- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

## 16. OTHER INFORMATION

### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd ([chemdata.com.au](http://chemdata.com.au)) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** HAIR COLOURS (PERMANENT / SEMI-PERMANENT; CREAM / LIQUID)

**Recommended use:** Hair salon preparation – colour.

**Chemical Nature:** Blend of ingredients.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



### Signal Word

Danger

### Hazard Classification

Acute Toxicity – Oral – Category 4

Skin Corrosion/Irritation – Category 2

Serious Eye Damage/Irritation – Category 1

Sensitisation – Skin – Category 1A

Specific Target Organ Toxicity (Single Exposure) – Category 2

Specific Target Organ Toxicity (Repeat Exposure) – Category 2

Acute Hazard to the Aquatic Environment – Category 2

Chronic Hazard to the Aquatic Environment – Category 2

### Hazard Statement(s)

H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H371 May cause damage to organs

H373 May cause damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects

### Prevention Precautionary Statement(s)

P102 Keep out of reach of children

P103 Read label before use

P260 Do not breathe dust, fume, gas, mist, vapours or spray

P264 Wash hands, face and all exposed skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P272 Contaminated work clothing should not be allowed out of the workplace

P273 Avoid release to the environment

P280 Wear protective clothing, gloves, eye/face protection and suitable respirator

### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand.

P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.

**Storage Precautionary Statement(s)**

P405 Store locked up

**Disposal Precautionary Statement(s)**

P501 Dispose of contents/container in accordance with local, regional, national and international regulations

**Poisons Schedule (Australia): S5**

WARNING – This product contains ingredients which may cause skin sensitization and / or irritation to certain individuals, and when used for eyelash or eyebrow tinting may cause injury to the eye. A preliminary test according to the accompanying directions should be made before use.

**NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Please refer to Supplier's SDS for Dangerous Goods classification. Some products are not classified as Dangerous Goods and some may be classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods.

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Ammonia	1334-21-6	<5%
1,4-Benzenediamine, 2-methyl-, sulfate (1:1)	615-50-9	<5%
Ethanolamine	141-43-5	<5%
Resorcinol	108-46-3	<2%
Phenylenediamines	-	<2%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

#### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

**Eye contact:** Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically. Effects may be delayed. Can cause corneal burns.

#### 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** Refer to Supplier's SDS.

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material.

**Firefighting further advice:** Not combustible, however following evaporation of aqueous component residual material can burn if ignited. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

#### 6. ACCIDENTAL RELEASE MEASURES

##### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

## LARGE SPILLS

Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** Refer to Supplier's SDS.

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

Please refer to Supplier's SDS for Dangerous Goods classification. Some products are not classified as Dangerous Goods and some may be classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) - TWA		(WES) - STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Ammonia	25	17	35	24	-	-
Ethanolamine	3	7.5	6	15	-	-
Resorcinol	10	45	20	90	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

### Definitions

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

WES-TWA (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

WES-STEL (Workplace Exposure Standard - Short-Term Exposure Limit). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood

of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Note:** It is recommended that eye protection (safety glasses or goggles) and protective gloves are worn when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas Use with local exhaust ventilation or while wearing appropriate respirator. The use of exhaust fans is strongly recommended. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR

Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Coloured liquids or viscous creams with a mildly perfumed or ammonia odour.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	0.98 – 1.00
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	N App
<b>Flammability Limits (%):</b>	N Av
<b>Autoignition Temperature (°C):</b>	N App
<b>Melting Point/Range (°C):</b>	Approx. 0
<b>Boiling Point/Range (°C):</b>	Approx. 100
<b>pH:</b>	7.0 – 11.0
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin will result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (irritant to skin).

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1A Hazard (skin sensitiser).

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 2 Hazard. Exposure via oral may result in adverse effects on blood and the central nervous system.

### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as a Category 2 Hazard. Exposure via oral may result in adverse effects to the skeletal muscles.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as a Category Acute 2 Hazard. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

**Long-term aquatic hazard:** This material has been classified as a Category Chronic 2 Hazard. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is readily biodegradable.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Please refer to Supplier's SDS for Dangerous Goods classification. Some products are not classified as Dangerous Goods and some may be classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods.

### MARINE TRANSPORT

Please refer to Supplier's SDS for Dangerous Goods classification. Some products are not classified as Dangerous Goods and some may be classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods.

### AIR TRANSPORT

Please refer to Supplier's SDS for Dangerous Goods classification. Some products are not classified as Dangerous Goods and some may be classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods.



## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)

**This material is subject to the following international agreements:**

International Convention for the Prevention of Pollution from Ships (MARPOL)

- Annex III - Harmful Substances carried in Packaged Form

**This material/constituent(s) is covered by the following requirements:**

- The Standard for the *Uniform Scheduling of Medicines and Poisons (SUSMP)* established under the *Therapeutic Goods Act (Commonwealth)*.
- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

## 16. OTHER INFORMATION

### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd ([chemdata.com.au](http://chemdata.com.au)) on behalf of its client.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** HAIR COLOURS (PERMANENT / SEMI-PERMANENT; CREAM / LIQUID – CLASS 8)

**Recommended use:** Hair salon preparation – colour.

**Chemical Nature:** Blend of ingredients.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



### Signal Word

Danger

### Hazard Classification

Acute Toxicity – Oral – Category 4

Skin Corrosion/Irritation – Category 1C

Serious Eye Damage/Irritation – Category 1

Sensitisation – Skin – Category 1A

Specific Target Organ Toxicity (Single Exposure) – Category 2

Specific Target Organ Toxicity (Single Exposure) – Category 3 – Respiratory Tract Irritation

Specific Target Organ Toxicity (Repeat Exposure) – Category 2

Acute Hazard to the Aquatic Environment – Category 2

Chronic Hazard to the Aquatic Environment – Category 2

### Hazard Statement(s)

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H335 May cause respiratory irritation

H371 May cause damage to organs

H373 May cause damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects

### Prevention Precautionary Statement(s)

P102 Keep out of reach of children

P103 Read label before use

P260 Do not breathe dust, fume, gas, mist, vapours or spray

P264 Wash hands, face and all exposed skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P272 Contaminated work clothing should not be allowed out of the workplace

P273 Avoid release to the environment

P280 Wear protective clothing, gloves, eye/face protection and suitable respirator

### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand.

P310	Immediately call a POISON CENTER or doctor/physician if you feel unwell.
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.

#### Storage Precautionary Statement(s)

P405	Store locked up
P403+233	Store in a well ventilated place. Keep container tightly closed

#### Disposal Precautionary Statement(s)

P501	Dispose of contents/container in accordance with local, regional, national and international regulations
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#### Poisons Schedule (Australia): S5

WARNING – This product contains ingredients which may cause skin sensitization and / or irritation to certain individuals, and when used for eyelash or eyebrow tinting may cause injury to the eye. A preliminary test according to the accompanying directions should be made before use.

### NEW ZEALAND CLASSIFICATION

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

### DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail”.

**Class:** 8 Corrosive

### 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Ammonia	1334-21-6	<5%
1,4-Benzenediamine, 2-methyl-, sulfate (1:1)	615-50-9	<5%
Ethanolamine	141-43-5	<10%
Resorcinol	108-46-3	<2%
Phenylenediamines	-	<2%
Ingredients determined to be non-hazardous	-	Balance
		<hr/> 100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

#### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital. For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

**Eye contact:** Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically. Effects may be delayed. Can cause corneal burns.

#### 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** 2X

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material. Corrosive material.

**Firefighting further advice:** Not combustible, however following evaporation of aqueous component residual material can burn if ignited. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No: 37**

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 8 Corrosive as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) - TWA		(WES) - STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Ammonia	25	17	35	24	-	-
Ethanolamine	3	7.5	6	15	-	-
Resorcinol	10	45	20	90	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

### Definitions

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

WES-TWA (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

WES-STEL (Workplace Exposure Standard - Short-Term Exposure Limit). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** It is recommended that eye protection (safety glasses or goggles) and protective gloves are worn when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas Use with local exhaust ventilation or while wearing appropriate respirator. The use of exhaust fans is strongly recommended. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR

Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form / Colour / Odour:** Coloured liquids or viscous creams with a mildly perfumed or ammonia odour.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	0.98 – 1.00
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	N App
<b>Flammability Limits (%):</b>	N Av
<b>Auto ignition Temperature (°C):</b>	N App

<b>Melting Point/Range (°C):</b>	Approx. 0
<b>Boiling Point/Range (°C):</b>	Approx. 100
<b>pH:</b>	7.0 – 11.0
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

**Incompatible materials:** Acids and oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material is an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Ingestion:** Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

**Eye contact:** A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Skin: this material has been classified as a Category 1C Hazard (corrosive to skin).

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1A Hazard (skin sensitiser).

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 2 Hazard. Exposure via oral may result in adverse effects on blood and the central nervous system. This material has been classified a Category 3 Hazard. Exposure via inhalation may result in respiratory irritation

**Chronic Toxicity**

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as a Category 2 Hazard. Exposure via oral may result in adverse effects to the skeletal muscles.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as a Category Acute 2 Hazard. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

**Long-term aquatic hazard:** This material has been classified as a Category Chronic 2 (9.1B NZ) Hazard. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is readily biodegradable.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".



**UN No:** Refer to Supplier's SDS  
**Dangerous Goods Class:** 8 Corrosive  
**Packing Group:** III  
**Hazchem Code:** Refer to Supplier's SDS  
**Emergency Response Guide No:** 37

**Proper Shipping Name:** Refer to Supplier's SDS

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2), radioactive substances (Class 7) or food and food packaging in any quantity, however exemptions may apply. Note that concentrated strong alkalis are incompatible with concentrated strong acids.

#### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

**UN No:** Refer to Supplier's SDS  
**Dangerous Goods Class:** 8 Corrosive  
**Packing Group:** III

**Proper Shipping Name:** Refer to Supplier's SDS

#### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** Refer to Supplier's SDS  
**Dangerous Goods Class:** 8 Corrosive  
**Packing Group:** III

**Proper Shipping Name:** Refer to Supplier's SDS

**Note:** This product group may use several different UN numbers, Hazchem codes and Proper Shipping Names. Please refer to the Supplier's SDS for this information.

### 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)

**This material is subject to the following international agreements:**

Basel Convention (Hazardous Waste)

- Basic solutions or bases in solid form

International Convention for the Prevention of Pollution from Ships (MARPOL)

- Annex II - Noxious Liquid Substances carried in Bulk
- Annex III - Harmful Substances carried in Packaged Form

**This material/constituent(s) is covered by the following requirements:**

- The Standard for the *Uniform Scheduling of Medicines and Poisons (SUSMP)* established under the *Therapeutic Goods Act (Commonwealth)*.
- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

<b>16. OTHER INFORMATION</b>
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**Literary reference**

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** HAIR COLOURS (AEROSOL)

**Recommended use:** Hair colour preparation - presented as an aerosol mousse or foam.

**Chemical Nature:** Blend of ingredients.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



#### Signal Word

Danger

#### Hazard Classification

Flammable Aerosols – Category 1  
 Acute Toxicity – Oral – Category 4  
 Skin Corrosion/Irritation – Category 2  
 Serious Eye Damage/Irritation – Category 1  
 Sensitisation – Skin – Category 1A  
 Specific Target Organ Toxicity (Single Exposure) – Category 2  
 Specific Target Organ Toxicity (Repeat Exposure) – Category 2  
 Acute Hazard to the Aquatic Environment – Category 2  
 Chronic Hazard to the Aquatic Environment – Category 2

#### Hazard Statement(s)

H222	Extremely flammable aerosol
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H371	May cause damage to organs
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects

#### Prevention Precautionary Statement(s)

P102	Keep out of reach of children
P103	Read label before use
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source
P251	Pressurized container: Do not pierce or burn, even after use
P260	Do not breathe dust, fume, gas, mist, vapours or spray
P264	Wash hands, face and all exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment

P280 Wear protective clothing, gloves, eye/face protection and suitable respirator

**Response Precautionary Statement(s)**

P101 If medical advice is needed, have product container or label at hand.  
 P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P330 Rinse mouth.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P362 Take off contaminated clothing and wash before reuse.  
 P391 Collect spillage.

**Storage Precautionary Statement(s)**

P405 Store locked up  
 P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50°C

**Disposal Precautionary Statement(s)**

P501 Dispose of contents/container in accordance with local, regional, national and international regulations

**Poisons Schedule (Australia): S5**

WARNING – This product contains ingredients which may cause skin sensitization and / or irritation to certain individuals, and when used for eyelash or eyebrow tinting may cause injury to the eye. A preliminary test according to the accompanying directions should be made before use.

**NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**Class:** 2.1 Flammable Gas

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Alkanes, C3 – C4 (propellant)	68475-59-2	<10%
Ammonia	1334-21-6	<5%
Ethanolamine	141-43-5	<5%
1,4-Benzenediamine, 2-methyl-, sulfate (1:1)	615-50-9	<5%
Ethanol	64-17-5	<10%
Resorcinol	108-46-3	<2%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

#### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital. For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

**Eye contact:** Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically. Effects may be delayed. Can cause corneal burns.

#### 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** 2YE

**Suitable extinguishing media:** If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Flammable gas. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. Do NOT smoke.

**Firefighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No: 49**

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 2.1 Flammable Gas as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) - TWA		(WES) - STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m3	ppm	mg/m3		
Alkane C4 (butane)	800	1900	-	-	-	-
Ammonia	25	17	35	24	-	-
Ethanol	1000	1880	-	-	-	-
Ethanolamine	3	7.5	6	15	-	-
Resorcinol	10	45	20	90	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

### Definitions

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

WES-TWA (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

WES-STEL (Workplace Exposure Standard - Short-Term Exposure Limit). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** It is recommended that eye protection (safety glasses or goggles) and protective gloves are worn when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. The use of exhaust fans is strongly recommended. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR

Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Coloured foam with a mild odour.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	N Av
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	<0

Flammability Limits (%):	N Av
Autoignition Temperature (°C):	N Av
Melting Point/Range (°C):	N Av
Boiling Point/Range (°C):	N Av
pH:	6.0 – 11.0
Viscosity:	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin will result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Ingestion:** Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

**Eye contact:** A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg



**Corrosion/Irritancy:** Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (irritant to skin).

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1A Hazard (skin sensitiser).

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 2 Hazard. Exposure via oral may result in adverse effects on blood and the central nervous system.

#### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as a Category 2 Hazard. Exposure via oral may result in adverse effects to the skeletal muscles.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as a Category Acute 2 Hazard. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

**Long-term aquatic hazard:** This material has been classified as a Category Chronic 2 Hazard. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is readily biodegradable.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

**14. TRANSPORT INFORMATION****ROAD AND RAIL TRANSPORT**

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Packing Group:** None  
**Hazchem Code:** 2YE  
**Emergency Response Guide No:** 49

**Proper Shipping Name:** AEROSOLS

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable liquids (Class 3), if both are in bulk, flammable solids (Class 4.1), spontaneously combustible substances (Class 4.2), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

**MARINE TRANSPORT**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Packing Group:** None

**Proper Shipping Name:** AEROSOLS

**AIR TRANSPORT**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Packing Group:** None

**Proper Shipping Name:** AEROSOLS, FLAMMABLE

**15. REGULATORY INFORMATION**

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)

**This material is subject to the following international agreements:**

Basel Convention (Hazardous Waste)

- Organic solvents excluding halogenated solvents

International Convention for the Prevention of Pollution from Ships (MARPOL)

- Annex III - Harmful Substances carried in Packaged Form

**This material/constituent(s) is covered by the following requirements:**

- The Standard for the *Uniform Scheduling of Medicines and Poisons (SUSMP)* established under the *Therapeutic Goods Act (Commonwealth)*.
- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

<b>16. OTHER INFORMATION</b>
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**Literary reference**

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

**1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION**

**Product name:** Refer to individual company's name

**Other names:** HAIR COLOURS (AEROSOL – CLASS 8)

**Recommended use:** Hair colour preparation - presented as an aerosol mousse or foam.

**Chemical Nature:** Blend of ingredients.

**2. HAZARDS IDENTIFICATION****AUSTRALIA CLASSIFICATION**

This material is hazardous according to criteria of Safe Work Australia.

**Signal Word**

Danger

**Hazard Classification**

Flammable Aerosols – Category 1

Acute Toxicity – Oral – Category 4

Skin Corrosion/Irritation – Category 1C

Serious Eye Damage/Irritation – Category 1

Sensitisation – Skin – Category 1A

Specific Target Organ Toxicity (Single Exposure) – Category 2

Specific Target Organ Toxicity (Single Exposure) – Category 3 – Respiratory Tract Irritation

Specific Target Organ Toxicity (Repeat Exposure) – Category 2

Acute Hazard to the Aquatic Environment – Category 2

Chronic Hazard to the Aquatic Environment – Category 2

**Hazard Statement(s)**

H222 Extremely flammable aerosol

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H335 May cause respiratory irritation

H371 May cause damage to organs

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects

**Prevention Precautionary Statement(s)**

P102 Keep out of reach of children

P103 Read label before use

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source

P251 Pressurized container: Do not pierce or burn, even after use

P260 Do not breathe dust, fume, gas, mist, vapours or spray

P264 Wash hands, face and all exposed skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

- P271 Use only outdoors or in a well-ventilated area  
P272 Contaminated work clothing should not be allowed out of the workplace  
P273 Avoid release to the environment  
P280 Wear protective clothing, gloves, eye/face protection and suitable respirator

**Response Precautionary Statement(s)**

- P101 If medical advice is needed, have product container or label at hand.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.

**Storage Precautionary Statement(s)**

- P405 Store locked up  
P403+233 Store in a well ventilated place. Keep container tightly closed  
P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50°C

**Disposal Precautionary Statement(s)**

- P501 Dispose of contents/container in accordance with local, regional, national and international regulations

**Poisons Schedule (Australia): S5**

WARNING – This product contains ingredients which may cause skin sensitization and / or irritation to certain individuals, and when used for eyelash or eyebrow tinting may cause injury to the eye. A preliminary test according to the accompanying directions should be made before use.

**NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail”.

**Class:** 2.1 Flammable Gas  
**Sub risk:** 8 Corrosive

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Alkanes, C3 – C4 (propellant)	68475-59-2	<10%
Ammonia	1334-21-6	<5%
1,4-Benzenediamine, 2-methyl-, sulfate (1:1)	615-50-9	<5%
Ethanol	64-17-5	<10%
Ethanolamine	141-43-5	<10%
Resorcinol	108-46-3	<2%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

**4. FIRST AID MEASURES**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital. For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

**Eye contact:** Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically. Effects may be delayed. Can cause corneal burns.

## 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** 2YE

**Suitable extinguishing media:** If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Flammable gas. Corrosive substance. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. Do NOT smoke.

**Firefighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** 49

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 2.1 Flammable Gas, Sub-risk 8 Corrosive as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) - TWA		(WES) - STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Alkane C4 (butane)	800	1900	-	-	-	-
Ammonia	25	17	35	24	-	-
Ethanol	1000	1880	-	-	-	-
Ethanolamine	3	7.5	6	15	-	-
Resorcinol	10	45	20	90	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

### Definitions

**TWA** - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

**STEL** (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

**WES-TWA** (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

**WES-STEL** (Workplace Exposure Standard - Short-Term Exposure Limit). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** It is recommended that eye protection (safety glasses or goggles) and protective gloves are worn when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. The use of exhaust fans is strongly recommended. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR



Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Coloured foam with a mild odour.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	N Av
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	<0
<b>Flammability Limits (%):</b>	N Av
<b>Autoignition Temperature (°C):</b>	N Av
<b>Melting Point/Range (°C):</b>	N Av
<b>Boiling Point/Range (°C):</b>	N Av
<b>pH:</b>	6.0 – 11.0
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

**Incompatible materials:** Acids and oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material is an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Ingestion:** Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

**Eye contact:** A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

#### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Skin: this material has been classified as a Category 1C Hazard (corrosive to skin).

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1A Hazard (skin sensitiser).

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 2 Hazard. Exposure via oral may result in adverse effects on blood and the central nervous system. This material has been classified a Category 3 Hazard. Exposure via inhalation may result in respiratory irritation

#### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as a Category 2 Hazard. Exposure via oral may result in adverse effects to the skeletal muscles.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as a Category Acute 2 Hazard. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

**Long-term aquatic hazard:** This material has been classified as a Category Chronic 2 (9.1B NZ) Hazard. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is readily biodegradable.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

### 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see “Section 8. Exposure Controls and Personal Protection” of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

### 14. TRANSPORT INFORMATION

#### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail”.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Sub risk 1:** 8 Corrosive  
**Packing Group:** None  
**Hazchem Code:** 2YE  
**Emergency Response Guide No:** 49

**Proper Shipping Name:** AEROSOLS

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable liquids (Class 3), if both are in bulk, flammable solids (Class 4.1), spontaneously combustible substances (Class 4.2), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

#### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Sub risk 1:** 8 Corrosive  
**Packing Group:** None

**Proper Shipping Name:** AEROSOLS

#### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Sub risk 1:** 8 Corrosive  
**Packing Group:** None

**Proper Shipping Name:** AEROSOLS, FLAMMABLE, CONTAINING SUBSTANCES IN CLASS 8, PACKING GROUP III

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)

**This material is subject to the following international agreements:**

Basel Convention (Hazardous Waste)

- Organic solvents excluding halogenated solvents

International Convention for the Prevention of Pollution from Ships (MARPOL)

- Annex II - Noxious Liquid Substances carried in Bulk
- Annex III - Harmful Substances carried in Packaged Form

**This material/constituent(s) is covered by the following requirements:**

- The Standard for the *Uniform Scheduling of Medicines and Poisons (SUSMP)* established under the *Therapeutic Goods Act (Commonwealth)*.
- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

## 16. OTHER INFORMATION

### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd ([chemdata.com.au](http://chemdata.com.au)) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** HAIR SPRAYS / LACQUERS (AEROSOL)

**Recommended use:** Hair styling preparation.

**Chemical Nature:** Resin in a suitable solvent/propellant system.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



#### Signal Word

Danger

#### Hazard Classification

Flammable Aerosols – Category 1

Serious Eye Damage/Irritation – Category 2A

#### Hazard Statement(s)

H222 Extremely flammable aerosol

H319 Causes serious eye irritation

#### Prevention Precautionary Statement(s)

P102 Keep out of reach of children

P103 Read label before use

P210 Keep away from all sources of ignition - No smoking

P211 Do not spray on an open flame or other ignition source

P251 Pressurized container: Do not pierce or burn, even after use

P264 Wash hands, face and all exposed skin thoroughly after handling

P280 Wear protective clothing, gloves, eye/face protection and suitable respirator

#### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

#### Storage Precautionary Statement(s)

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50°C

#### Disposal Precautionary Statement(s)

Not allocated

**Poisons Schedule (Australia):** Not applicable

**NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**Class:** 2.1 Flammable Gas

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Alkanes, C3-4	68475-59-2	30 - 50%
Ethane, 1,1-difluoro-	75-37-6	Approx. 10%
Dimethyl ether	115-10-6	30 - 40%
Ethanol	64-17-5	40 - 65%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

**4. FIRST AID MEASURES**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** 2YE

**Suitable extinguishing media:** If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Compressed gas. Flammable gas. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. Do NOT smoke.

**Firefighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes, including those of carbon dioxide and carbon monoxide. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** 49

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 2.1 Flammable Gas as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) - TWA		(WES) - STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Butane (Alkane C4)	800	1900	-	-	-	-
Ethanol	1000	1880	-	-	-	-
Dimethyl ether (AUS)	400	760	500	950	-	-
Dimethyl ether (NZ)	400	766	500	958	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

### Definitions

**TWA** - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

**STEL** (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

**WES-TWA** (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

**WES-STEL** (Workplace Exposure Standard - Short-Term Exposure Limit). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Vapour heavier than air - prevent concentration in hollows or sumps. The use of exhaust fans is strongly recommended.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES

Wear overalls, chemical goggles and gloves. If there is routine unprotected and long term contact with these products, suitable gloves should be worn during use. Available information suggests that gloves made from



rubber or PVC should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Clear liquids with a characteristic odour.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	0.86 – 0.90
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	Approx. -87
<b>Flammability Limits (%):</b>	LEL – 1.9; UEL – 9.5
<b>Autoignition Temperature (°C):</b>	N Av
<b>Melting Point/Range (°C):</b>	N Av
<b>Boiling Point/Range (°C):</b>	N Av
<b>pH:</b>	Approx. 6.0 – 8.5
<b>Viscosity:</b>	N App

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Keep containers and surrounding areas well ventilated.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Where this material is used in a poorly ventilated area, at elevated temperatures or in confined spaces, vapour may cause irritation to mucous membranes and respiratory tract, headache and nausea.

**Skin contact:** Contact with skin may result in irritation.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** An eye irritant. May cause watering of eyes and blurred vision.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >100 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

### 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

### 14. TRANSPORT INFORMATION

#### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Packing Group:** None  
**Hazchem Code:** 2YE  
**Emergency Response Guide No:** 49

**Proper Shipping Name:** AEROSOLS

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable liquids (Class 3), if both are in bulk, flammable solids (Class 4.1), spontaneously combustible substances (Class 4.2), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

#### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Packing Group:** None

**Proper Shipping Name:** AEROSOLS

#### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Packing Group:** None

**Proper Shipping Name:** AEROSOLS, FLAMMABLE

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material/constituent(s) is covered by the following requirements:**

- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

## 16. OTHER INFORMATION

### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** AEROSOL MOUSSES

**Recommended use:** Hair styling and conditioning.

**Chemical Nature:** Water suspension/solution of ingredients, presented as an aerosol.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



#### Signal Word

Danger

#### Hazard Classification

Flammable Aerosols – Category 1

Serious Eye Damage/Irritation - Category 2A

Chronic Hazard to the Aquatic Environment - Category 3

#### Hazard Statement(s)

H222 Extremely flammable aerosol  
H319 Causes serious eye irritation.  
H413 Harmful to aquatic life with long lasting effects.

#### Prevention Precautionary Statement(s)

P102 Keep out of reach of children  
P103 Read label before use  
P210 Keep away from all sources of ignition - No smoking  
P211 Do not spray on an open flame or other ignition source  
P251 Pressurized container: Do not pierce or burn, even after use  
P264 Wash hands, face and all exposed skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

#### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.

#### Storage Precautionary Statement(s)

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50°C

#### Disposal Precautionary Statement(s)

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

**Poisons Schedule (Australia):** Not applicable

### NEW ZEALAND CLASSIFICATION

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

### DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**Class:** 2.1 Flammable Gas

### 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Alkanes, C3-4	68475-59-2	<15%
Ethanol	64-17-5	<20%
Surfactants (cationic or non-ionic)	-	<5%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye contact:** If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** 2YE

**Suitable extinguishing media:** If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Compressed gas. Flammable gas. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. Do NOT smoke.

**Firefighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes, including those of carbon dioxide and carbon monoxide. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** 49

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 2.1 Flammable Gas as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) - TWA		(WES) - STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Butane (Alkane C4)	800	1900	-	-	-	-
Ethanol	1000	1880	-	-	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

### Definitions

**TWA** - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

**STEL** (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

**WES-TWA** (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

**WES-STEL** (Workplace Exposure Standard - Short-Term Exposure Limit). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Vapour heavier than air - prevent concentration in hollows or sumps. The use of exhaust fans is strongly recommended.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES

Wear overalls, safety glasses and gloves. If there is routine unprotected and long term contact with these products, suitable gloves should be worn during use. Available information suggests that gloves made from rubber or PVC should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating,



drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** White foam, with a characteristic fragrance.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	0.74 – 0.88
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	Approx. -87
<b>Flammability Limits (%):</b>	LEL – 1.9; UEL – 9.5
<b>Autoignition Temperature (°C):</b>	N Av
<b>Melting Point/Range (°C):</b>	N Av
<b>Boiling Point/Range (°C):</b>	N Av
<b>pH:</b>	Approx. 4 - 7
<b>Viscosity:</b>	N App

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Keep containers and surrounding areas well ventilated.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin may result in irritation.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** An eye irritant. May cause watering of eyes and blurred vision.

#### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as non-hazardous.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

#### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as a Category Chronic 3 Hazard. Acute toxicity estimate (based on ingredients): 10 - 100 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

**13. DISPOSAL CONSIDERATIONS**

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

**14. TRANSPORT INFORMATION****ROAD AND RAIL TRANSPORT**

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Packing Group:** None  
**Hazchem Code:** 2YE  
**Emergency Response Guide No:** 49

**Proper Shipping Name:** AEROSOLS

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable liquids (Class 3), if both are in bulk, flammable solids (Class 4.1), spontaneously combustible substances (Class 4.2), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

**MARINE TRANSPORT**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Packing Group:** None

**Proper Shipping Name:** AEROSOLS

**AIR TRANSPORT**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Packing Group:** None

**Proper Shipping Name:** AEROSOLS, FLAMMABLE

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material/constituent(s) is covered by the following requirements:**

- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

## 16. OTHER INFORMATION

### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** SHAMPOOS

**Recommended use:** To cleanse the hair and scalp

**Chemical Nature:** Water solution of surfactants and other minor ingredients.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



#### Signal Word

Warning

#### Hazard Classification

Acute Toxicity – Oral – Category 4

Serious Eye Damage/Irritation – Category 2A

Chronic Hazard to the Aquatic Environment – Category 3

#### Hazard Statement(s)

H302 Harmful if swallowed  
H319 Causes serious eye irritation  
H412 Harmful to aquatic life with long lasting effects

#### Prevention Precautionary Statement(s)

P102 Keep out of reach of children  
P103 Read label before use  
P264 Wash hands, face and all exposed skin thoroughly after handling  
P270 Do not eat, drink or smoke when using this product  
P273 Avoid release to the environment  
P280 Wear protective clothing, gloves and eye/face protection.

#### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.

#### Storage Precautionary Statement(s)

Not allocated

**Disposal Precautionary Statement(s)**

P501 Dispose of contents/container in accordance with local, regional, national and international regulations

**Note: classification assumes product is rinsed off soon after application.**

**Poisons Schedule (Australia):** Not applicable

**Note:** some shampoos containing sodium lauryl sulfate may be classed as S6 poisons if they do not have appropriate SUSMP warning statements on product labels.

**NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Sodium lauryl sulfate	151-21-3	<30%
Sodium laureth sulfate	68891-38-8	<20%
Ammonium lauryl sulfate	2235-54-3	<20%
Cocamidopropylbetaine	61789-40-0	<20%
Ingredients determined to be non-hazardous	-	Balance
		<hr/> 100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

**4. FIRST AID MEASURES**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material.

**Firefighting further advice:** Not combustible, however following evaporation of aqueous component residual material can burn if ignited. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** Not applicable.

## 7. HANDLING AND STORAGE

**Handling:** Avoid eye contact and repeated or prolonged skin contact.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Note:** No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid eye contact and repeated or prolonged skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Coloured, opaque viscous liquids with a characteristic odour.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	1.0 – 1.1
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	N App
<b>Flammability Limits (%):</b>	N Av
<b>Autoignition Temperature (°C):</b>	N App
<b>Melting Point/Range (°C):</b>	Approx. 0
<b>Boiling Point/Range (°C):</b>	Approx. 100
<b>pH:</b>	4.5 – 7.5
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.



**Conditions to avoid:** Elevated temperatures and sources of ignition.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon, nitrogen, sulphur, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** An eye irritant.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 4 Hazard.  
Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as a Category Chronic 3 Hazard. Acute toxicity estimate (based on ingredients): 10 - 100 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is readily biodegradable.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material/constituent(s) is covered by the following requirements:**

- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

## 16. OTHER INFORMATION

### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** CONDITIONERS AND TREATMENTS

**Recommended use:** To condition and beautify hair after cleansing, or before or after other hair treatments.

**Chemical Nature:** Water solution of surfactants and other minor ingredients

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



#### Signal Word

Warning

#### Hazard Classification

Serious Eye Damage/Irritation – Category 2A

Chronic Hazard to the Aquatic Environment – Category 3

#### Hazard Statement(s)

H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

#### Prevention Precautionary Statement(s)

P102 Keep out of reach of children

P103 Read label before use

P264 Wash hands, face and all exposed skin thoroughly after handling

P273 Avoid release to the environment

P280 Wear protective clothing, gloves and eye/face protection

#### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

#### Storage Precautionary Statement(s)

Not allocated

#### Disposal Precautionary Statement(s)

P501 Dispose of contents/container in accordance with local, regional, national and international regulations

**Poisons Schedule (Australia):** Not applicable

**NEW ZEALAND CLASSIFICATION**

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552

**DANGEROUS GOODS CLASSIFICATION**

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Surfactants (including cetrimonium chloride, behentrimonium chloride, stearamidopropyl dimethylamine)	-	<5%
Ingredients determined to be non-hazardous	-	Balance
		100%

**4. FIRST AID MEASURES**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material.

**Firefighting further advice:** Not combustible, however following evaporation of aqueous component residual material can burn if ignited. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** Not applicable.

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Note:** No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Natural ventilation should be adequate under normal use conditions.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and

local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Coloured, opaque viscous liquids, with a characteristic odour.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	0.95 - 1.10
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	N App
<b>Flammability Limits (%):</b>	N Av
<b>Autoignition Temperature (°C):</b>	N Av
<b>Melting Point/Range (°C):</b>	Approx. 0
<b>Boiling Point/Range (°C):</b>	Approx. 100
<b>pH:</b>	2.5 – 5.5
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

**Incompatible materials:** No known materials to avoid.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin may result in irritation.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** An eye irritant.

#### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

#### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways. No data available for the product. However, for the constituent:

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as a Category Chronic 3 Hazard. Acute toxicity estimate (based on ingredients): 10 - 100 mg/L

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.



If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

#### 14. TRANSPORT INFORMATION

##### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

##### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

##### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

#### 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material/constituent(s) is covered by the following requirements:**

- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

#### 16. OTHER INFORMATION

##### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

**1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION**

**Product name:** Refer to individual company's name

**Other names:** KERATIN HAIR SMOOTHING PRODUCTS

**Recommended use:** Hair smoothing / anti frizz / hair taming products.

**Chemical Nature:** Water solution of hydrolysed keratin and other minor ingredients.

**2. HAZARDS IDENTIFICATION****AUSTRALIA CLASSIFICATION**

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

**Poisons Schedule (Australia):** Not applicable

**NEW ZEALAND CLASSIFICATION**

Based on available information, this material is not classified as hazardous according to criteria of New Zealand EPA.

**DANGEROUS GOODS CLASSIFICATION**

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**3. COMPOSITION INFORMATION**

CHEMICAL ENTITY	CAS NO.	PROPORTION
Hydrolysed keratin	69430-36-0	<10%
Ingredients determined to be non-hazardous	-	Balance
		100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

**4. FIRST AID MEASURES**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye contact:** If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:** Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material.

**Firefighting further advice:** Not combustible, however following evaporation of aqueous component residual material can burn if ignited. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

## **6. ACCIDENTAL RELEASE MEASURES**

### **SMALL SPILLS**

Wear protective equipment to prevent skin and eye contamination. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

### **LARGE SPILLS**

Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** Not applicable.

## **7. HANDLING AND STORAGE**

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Note:** No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

**Personal protection equipment:** SAFETY GLASSES, GLOVES

Wear safety glasses. If there is routine unprotected and long term contact with these products, suitable gloves should be worn during use. Available information suggests that gloves made from rubber or PVC should be suitable. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Coloured viscous creamy liquids, with a fragrant odour.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	Approx. 0.95 – 1.10
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N App
<b>Flammability Limits (%):</b>	N App
<b>Autoignition Temperature (°C):</b>	N App
<b>Melting Point/Range (°C):</b>	Approx. 0
<b>Boiling Point/Range (°C):</b>	Approx. 100
<b>pH:</b>	Approx. 3 - 8
<b>Viscosity:</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** No known conditions to avoid.

**Incompatible materials:** No known materials to avoid.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Repeated or prolonged skin contact may lead to irritation.

**Ingestion:** No adverse effects expected however large amounts may cause nausea and vomiting.

**Eye contact:** May cause watering of eyes and blurred vision.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser.  
Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

### 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

### 14. TRANSPORT INFORMATION

#### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

#### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

#### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

### 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material/constituent(s) is covered by the following requirements:**

- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

**16. OTHER INFORMATION**

**Literary reference**

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THEIR SUPPLIER TO OBTAIN ADDITIONAL INFORMATION.

**Please read all labels carefully before using product.**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Refer to individual company's name

**Other names:** DRY SHAMPOOS

**Recommended use:** To cleanse hair and the scalp.

**Chemical Nature:** Water suspension/solution of ingredients, presented as an aerosol.

## 2. HAZARDS IDENTIFICATION

### AUSTRALIA CLASSIFICATION

This material is hazardous according to criteria of Safe Work Australia.



#### Signal Word

Danger

#### Hazard Classification

Flammable Aerosols – Category 1

#### Hazard Statement(s)

H222 Extremely flammable aerosol

#### Prevention Precautionary Statement(s)

P102 Keep out of reach of children

P103 Read label before use

P210 Keep away from all sources of ignition - No smoking

P211 Do not spray on an open flame or other ignition source

P251 Pressurized container: Do not pierce or burn, even after use

#### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand.

#### Storage Precautionary Statement(s)

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50°C

#### Disposal Precautionary Statement(s)

Not allocated

**Poisons Schedule (Australia):** Not applicable

### NEW ZEALAND CLASSIFICATION

This material is hazardous according to criteria of New Zealand EPA.

**EPA Group Standard:** Cosmetic Products Group Standard 2006, HSR002552



### DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**Class:** 2.1 Flammable Gas

#### 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Alkanes, C3-4	68475-59-2	>60%
Ethanol	64-17-5	5 - 10%
Ingredients determined to be non-hazardous	-	Balance
		<hr/> 100%

This is a commercial product whose exact ratio of components may vary slightly. Varying quantities of other non-hazardous ingredients are also present.

#### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye contact:** If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**PPE for First Aiders:** Wear safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Notes to physician:** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

**Hazchem Code:** 2YE

**Suitable extinguishing media:** If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Compressed gas. Flammable gas. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. Do NOT smoke.

**Firefighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes, including those of carbon dioxide and carbon monoxide. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage. Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel.

If contamination of sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No: 49**

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 2.1 Flammable Gas as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or WorkSafe New Zealand.

However for:

	(WES) - TWA		(WES) - STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Butane (Alkane C4)	800	1900	-	-	-	-
Ethanol	1000	1880	-	-	-	-

As published by Safe Work Australia and WorkSafe New Zealand.

### **Definitions**

**TWA** - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

**STEL (Short Term Exposure Limit)** - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

**WES-TWA (Workplace Exposure Standard – Time-weighted Average)**. The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

**WES-STEL (Workplace Exposure Standard - Short-Term Exposure Limit)**. The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

No Exposure Standards assigned to other constituents.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

**Note:** No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Vapour heavier than air - prevent concentration in hollows or sumps. The use of exhaust fans is strongly recommended.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES

Wear overalls, safety glasses and gloves. If there is routine unprotected and long term contact with these products, suitable gloves should be worn during use. Available information suggests that gloves made from rubber or PVC should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** White foam, with a characteristic fragrance.

<b>Solubility:</b>	Soluble in water
<b>Specific Gravity (20 °C):</b>	0.74 – 0.88
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	Approx. -87
<b>Flammability Limits (%):</b>	LEL – 1.9; UEL – 9.5
<b>Autoignition Temperature (°C):</b>	N Av
<b>Melting Point/Range (°C):</b>	N Av
<b>Boiling Point/Range (°C):</b>	N Av
<b>pH:</b>	Approx. 4 - 7
<b>Viscosity:</b>	N App

(Typical values only - consult specification sheet)  
N Av = Not available                      N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Keep containers and surrounding areas well ventilated.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin may result in irritation.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** May be an eye irritant. May cause watering of eyes and blurred vision.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >20 mg/L

**Skin contact:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as non-hazardous.  
Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Packing Group:** None  
**Hazchem Code:** 2YE  
**Emergency Response Guide No:** 49

**Proper Shipping Name:** AEROSOLS

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable liquids (Class 3), if both are in bulk, flammable solids (Class 4.1), spontaneously combustible substances (Class 4.2), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Packing Group:** None

**Proper Shipping Name:** AEROSOLS

### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 1950  
**Dangerous Goods Class:** 2.1 Flammable Gas  
**Packing Group:** None

**Proper Shipping Name:** AEROSOLS, FLAMMABLE

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material/constituent(s) is covered by the following requirements:**

- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)* or in compliance with the Industrial Chemicals Notification and Assessment (ICNA) Act.

## 16. OTHER INFORMATION

### Literary reference

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Supersedes: October 2012

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

THIS SDS SUMMARISES AT THE DATE OF ISSUE OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT, AND IN PARTICULAR HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST, PRIOR TO USAGE, REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

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**Please read all labels carefully before using product.**

the 1990s, the number of people in the UK who have been diagnosed with a mental health problem has risen from 2.3 million to 5.3 million (Mental Health Foundation 2004). The increase in the prevalence of mental health problems is due to a combination of factors, including an increase in the incidence of mental health problems, an increase in the duration of mental health problems, and an increase in the number of people who are diagnosed with a mental health problem (Mental Health Foundation 2004).

The increase in the prevalence of mental health problems has led to a corresponding increase in the demand for mental health services. In the UK, the number of people who are in contact with mental health services has risen from 1.8 million in 1990 to 4.5 million in 2004 (Mental Health Foundation 2004). This increase in demand has led to a corresponding increase in the number of mental health professionals, including nurses, who are working in the field.

Despite the increase in the number of mental health professionals, there is still a significant shortage of mental health nurses in the UK. In 2004, there were only 11,000 mental health nurses in the UK, compared to 15,000 in 1990 (Mental Health Foundation 2004). This shortage of mental health nurses has led to a corresponding increase in the waiting time for mental health services.

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