

RID Medicated Roll-On and Lotion

RID (RID (Australia))

Chemwatch: **36-6826** Version No: **8.1.1.1**

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code:

Issue Date: 11/08/2016 Print Date: 30/06/2017 S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

| Product name | RID Medicated Roll-On and Lotion 201050 Medicated Roll On 50ml APN 9311037120502, 201050KH Medicated Roll On 50ml HK APN 9311037120502, 201125 Medicated Lotion 125ml APN 93206495, 201375 Medicated Lotion 375ml APN 9311037375131, 210050 Medicated Roll On 50ml APN 9311037120502, 210100 Medicated Lotion 100ml APN 9311037500021, 210500 Medicated Lotion 500ml APN 9311037500052 | |
|-------------------------------|---|--|
| Synonyms | | |
| Other means of identification | Not Available | |

Relevant identified uses of the substance or mixture and uses advised against

| Relevant identified uses | Use according to manufacturer's directions. |
|--------------------------|--|
| Neievant identified daes | Medicated before and after bite lotion and personal insecticide applied to the skin. |

Details of the supplier of the safety data sheet

| Registered company name | RID (RID (Australia)) | |
|-------------------------|---|--|
| Address | 9 Denham Street Townsville QLD 4810 Australia | |
| Telephone | 1 7 4772 1411 | |
| Fax | +61 7 4721 3892 | |
| Website | Not Available | |
| Email | Not Available | |

Emergency telephone number

| Association / Organisation | Not Available |
|-----------------------------------|-----------------|
| Emergency telephone numbers | +61 7 4772 1411 |
| Other emergency telephone numbers | Not Available |

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

CHEMWATCH HAZARD RATINGS

| | IVIIN | IVIAX |
|--------------|-------|-------------------------|
| Flammability | 0 | |
| Toxicity | 0 | 0 = Minimum |
| Body Contact | 1 | 1 = Low 2 = Moderate |
| Reactivity | 0 | 3 = High |
| Chronic | 0 | 4 = Extreme |

| Poisons Schedule | Not Applicable | |
|------------------------------------|----------------|--|
| Classification | Not Applicable | |
| Label elements | | |
| Hazard pictogram(s) Not Applicable | | |
| SIGNAL WORD | NOT APPLICABLE | |

Hazard statement(s)

Not Applicable

Chemwatch: 36-6826 Page 2 of 7 Issue Date: 11/08/2016 Version No: 8.1.1.1 Print Date: 30/06/2017

RID Medicated Roll-On and Lotion

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name | |
|------------|-----------|--|--|
| 134-62-3 | 10-30 | N,N-diethyl-m-toluamide | |
| balance In | | Ingredients determined not to be hazardous | |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

| Eye Contact | If this product comes in contact with eyes: Wash out immediately with water. If tritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. | |
|--------------|---|--|
| Skin Contact | Intended for application to skin. Remove with soap and water if irritation occurs. Seek medical advice if irritation persists. | |
| Inhalation | If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. | |
| Ingestion | Ingestion First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. | |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- $\,\blacktriangleright\,$ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

| Fire Incompatibility | None known. | |
|---|-------------|---------|
| Advice for firefighters | | |
| Fire Fighting Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. Non combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous fumes. | | |
| | | HAZCHEM |

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Page **3** of **7**

Issue Date: 11/08/2016 Print Date: 30/06/2017

RID Medicated Roll-On and Lotion

Minor Spills

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- ► Control personal contact with the substance, by using protective equipment.
- ► Contain and absorb spill with sand, earth, inert material or vermiculite.

Major Spills

- Moderate hazard.

 ► Clear area of personnel and move upwind.
- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling

- Avoid all personal contact, including inhalation.
- ▶ Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

Other information

- ▶ Store in original containers.
- Keep containers securely sealed.
- ► Store in a cool, dry, well-ventilated area.
- ▶ Store away from incompatible materials and foodstuff containers.

Conditions for safe storage, including any incompatibilities

Suitable container

- Polyethylene or polypropylene container.
- ▶ Packing as recommended by manufacturer
- ► Check all containers are clearly labelled and free from leaks.

Storage incompatibility

► Avoid reaction with oxidising agents















X — Must not be stored together

May be stored together with specific preventions

— May be stored together

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|----------------------------------|---------------|---------------|---------------|---------------|
| RID Medicated Roll-On and Lotion | Not Available | Not Available | Not Available | Not Available |
| Ingredient | Original IDLH | | Revised IDLH | |
| N,N-diethyl-m-toluamide | Not Available | | Not Available | |

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Personal protection









Eye and face protection

No special equipment for minor exposure i.e. when handling small quantities.

OTHERWISE:

I HERWISE:

• Safety glasses with side shields

• Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

Skin protection

See Hand protection below

Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Version No: **8.1.1.1**

RID Medicated Roll-On and Lotion

Issue Date: **11/08/2016**Print Date: **30/06/2017**

| | The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. • Wear chemical protective gloves, e.g. PVC. • Wear safety footwear or safety gumboots, e.g. Rubber | |
|------------------|---|--|
| Body protection | See Other protection below | |
| Other protection | ▶ Overalls. ▶ P.V.C. apron. ▶ Barrier cream. | |
| Thermal hazards | Not Available | |

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

RID Medicated Roll-On and Lotion

| Material | СРІ |
|----------------|-----|
| BUTYL | С |
| NATURAL RUBBER | С |
| NEOPRENE | С |
| PVA | С |
| VITON | С |

^{*} CPI - Chemwatch Performance Index

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|---------------------------------------|-------------------------|-------------------------|----------------------------|
| up to 10 x ES | A-AUS P2 | - | A-PAPR-AUS / Class 1 P2 |
| up to 50 x ES | - | A-AUS / Class 1 P2 | - |
| up to 100 x ES | - | A-2 P2 | A-PAPR-2 P2 ^ |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| Appearance | White fragrant non-greasy liquid; miscible with water (200 g/l) | | |
|--|---|---|----------------|
| Physical state | Liquid | Relative density (Water = 1) | 0.98 |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | 6.4-6.7 | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | 85-100 | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | Not Applicable | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Applicable | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Applicable | Volatile Component (%vol) | 80-90 |
| Vapour pressure (kPa) | Not Applicable | Gas group | Not Available |
| Solubility in water (g/L) | Miscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | 159.36 |

SECTION 10 STABILITY AND REACTIVITY

| Reactivity | See section 7 | |
|------------------------------------|--|--|
| Chemical stability | Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. | |
| Possibility of hazardous reactions | See section 7 | |
| Conditions to avoid | See section 7 | |

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

Page 5 of 7 **RID Medicated Roll-On and Lotion** Issue Date: 11/08/2016 Print Date: 30/06/2017

| Incompatible materials | See section 7 |
|----------------------------------|---------------|
| Hazardous decomposition products | See section 5 |

SECTION 11 TOXICOLOGICAL INFORMATION

| Information | on | toxicologic | al effects |
|-------------|----|-------------|------------|
| | | | |

| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product | | |
|---|---|--|--|
| Ingestion | The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. | | |
| Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Application of Deet to the skin produces no primary skin irritation or sensitisation in humans. In rabbits, redness and peeling of the skin have been observed as well as intoxication, excitation, stiffness and loss of co-ordination. Harm to the foetus has been reported following application of large doses. Open cuts, abraded or irritated skin should not be exposed to this material | | |
| Eye | The liquid may produce eye discomfort causing smarting, pain and redness. | | |
| Chronic | Based on experience with similar materials, there is a possibility that exposure to the material may reduce fertility in humans at levels which do not cause other toxic effects. Exposure to DEET is usually by inhaling mists or vapours, or through skin contact/absorption. Repeated exposure to DEET can cause slight irritation and dryness of the face, sloughing around the nose and a tingling sensation. Some individuals have shown nervous system symptoms (muscle cramp, urinary hesitation, difficulty sleeping, abnormal sweating, irritability, depression, paranoia, confusion and aggressive behaviour) and brain disease. Allergy and scarring skin inflammation have been reported; in one case, a 5-year-old girl died, likely as a result of sensitisation to DEET. | | |
| DID M. I' I D. II O I | TOXICITY | RRITATION | |
| RID Medicated Roll-On and Lotion | | lot Available | |
| | TOXICITY | IRRITATION | |
| | [6] | Eye (rabbit) : 10 mg - moderate | |
| N,N-diethyl-m-toluamide | rol | ye (rabbit): 100 mg | |
| | | ikin (rabbit): 500 mg - moderate | |
| Legend: | Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from RTECS - Register of Toxic Effect of chemical Substances | alue obtained from manufacturer's SDS. Unless otherwise specified data | |
| | | | |
| RID Medicated Roll-On and | No significant acute toxicological data identified in literature search. | | |
| RID Medicated Roll-On and Lotion N,N-DIETHYL-M-TOLUAMIDE | No significant acute toxicological data identified in literature search. For N,N-diethyl-m-toluamide (Deet) Acute toxicity: Different preparations of Deet with different proportions of the m-ist range showed lacrimation, chromodacryorrhea, depression, prostration, tremors, at failure. In rabbits, an intravenous dosage of 75 mg/kg was rapidly fatal, but 50 mg/kg was not the material may produce moderate eye irritation leading to inflammation. Repeate The material may cause skin irritation after prolonged or repeated exposure and mascaling and thickening of the skin. Reproductive effector in rats | nd asphyxial convulsions. Respiratory failure usually preceded cardiac ot. d or prolonged exposure to irritants may produce conjunctivitis. | |
| Lotion N,N-DIETHYL- | For N,N-diethyl-m-toluamide (Deet) Acute toxicity: Different preparations of Deet with different proportions of the m-isc range showed lacrimation, chromodacryorrhea, depression, prostration, tremors, at failure. In rabbits, an intravenous dosage of 75 mg/kg was rapidly fatal, but 50 mg/kg was n The material may produce moderate eye irritation leading to inflammation. Repeate The material may cause skin irritation after prolonged or repeated exposure and mascaling and thickening of the skin. Reproductive effector in rats | nd asphyxial convulsions. Respiratory failure usually preceded cardiac ot. d or prolonged exposure to irritants may produce conjunctivitis. | |
| Lotion N,N-DIETHYL- M-TOLUAMIDE | For N,N-diethyl-m-toluamide (Deet) Acute toxicity: Different preparations of Deet with different proportions of the m-isc range showed lacrimation, chromodacryorrhea, depression, prostration, tremors, at failure. In rabbits, an intravenous dosage of 75 mg/kg was rapidly fatal, but 50 mg/kg was n The material may produce moderate eye irritation leading to inflammation. Repeate The material may cause skin irritation after prolonged or repeated exposure and mascaling and thickening of the skin. Reproductive effector in rats Carc | nd asphyxial convulsions. Respiratory failure usually preceded cardiac obt. d or prolonged exposure to irritants may produce conjunctivitis. y produce on contact skin redness, swelling, the production of vesicles, | |
| N,N-DIETHYL-M-TOLUAMIDE | For N,N-diethyl-m-toluamide (Deet) Acute toxicity: Different preparations of Deet with different proportions of the m-isc range showed lacrimation, chromodacryorrhea, depression, prostration, tremors, at failure. In rabbits, an intravenous dosage of 75 mg/kg was rapidly fatal, but 50 mg/kg was n The material may produce moderate eye irritation leading to inflammation. Repeate The material may cause skin irritation after prolonged or repeated exposure and mascaling and thickening of the skin. Reproductive effector in rats | nd asphyxial convulsions. Respiratory failure usually preceded cardiac bot. d or prolonged exposure to irritants may produce conjunctivitis. y produce on contact skin redness, swelling, the production of vesicles, inogenicity roductivity | |
| N,N-DIETHYL-M-TOLUAMIDE Acute Toxicity Skin Irritation/Corrosion Serious Eye | For N,N-diethyl-m-toluamide (Deet) Acute toxicity: Different preparations of Deet with different proportions of the m-iss range showed lacrimation, chromodacryorrhea, depression, prostration, tremors, at failure. In rabbits, an intravenous dosage of 75 mg/kg was rapidly fatal, but 50 mg/kg was not the material may produce moderate eye irritation leading to inflammation. Repeate The material may cause skin irritation after prolonged or repeated exposure and masscaling and thickening of the skin. Reproductive effector in rats Carc | nd asphyxial convulsions. Respiratory failure usually preceded cardiac bot. d or prolonged exposure to irritants may produce conjunctivitis. by produce on contact skin redness, swelling, the production of vesicles, by productivity roductivity P Exposure | |

X − Data available but does not fill the criteria for classification
 ✓ − Data available to make classification

O - Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

| ······· | | | | | |
|----------------------------------|-------------------|--------------------|----------------|-------------------|-------------------|
| RID Medicated Roll-On and Lotion | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| N,N-diethyl-m-toluamide | LC50 | 96 | Fish | 20.983mg/L | 3 |
| | EC50 | 48 | Crustacea | 75mg/L | 4 |

Version No: 8.1.1.1

RID Medicated Roll-On and Lotion

Issue Date: 11/08/2016 Print Date: 30/06/2017

EC50 55.919mg/L Algae or other aquatic plants Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 Legend: (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Environmental Fate:

Soil: N,N-diethly-m-toluamide (DEET), an active ingredient in insect repellant, is found to be moderately mobile in soil and is stable to hydrolysis at soil pH level typically found in the environment. Studies show that DEET can be biodegraded by soil microorganism e.g. P. putida.

Water: DEET, practically insoluble in water, was detected in water as a result of urban wastewater contamination to stream-flow.

DO NOT discharge into sewer or water

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|-------------------------|-------------------------|------------------|
| N,N-diethyl-m-toluamide | HIGH | HIGH |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|-------------------------|-----------------|
| N,N-diethyl-m-toluamide | LOW (BCF = 2.4) |

Mobility in soil

| Ingredient | Mobility |
|-------------------------|-------------------|
| N,N-diethyl-m-toluamide | LOW (KOC = 536.6) |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- ▶ Reuse
- Recycling
- ▶ Disposal (if all else fails)

Product / Packaging disposal This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- DO NOT allow wash water from cleaning or process equipment to enter drains
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified

- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers

SECTION 14 TRANSPORT INFORMATION

Labels Required

| Marine Pollutant | NO |
|------------------|----------------|
| HAZCHEM | Not Applicable |

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

N,N-DIETHYL-M-TOLUAMIDE(134-62-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

| Australia Hazardous Substances Information System - Consolidated Lists | | Australia Inventory of Chemical Substances (AICS) |
|--|-----------------------------|---|
| National Inventory | Status | |
| Australia - AICS | Υ | |
| Canada - DSL | Y | |
| Canada - NDSL | N (N.N-diethyl-m-toluamide) | |

Chemwatch: 36-6826 Page 7 of 7 Issue Date: 11/08/2016 Version No: 8.1.1.1 Print Date: 30/06/2017

RID Medicated Roll-On and Lotion

| China - IECSC | Y |
|----------------------------------|---|
| Europe - EINEC / ELINCS / NLP | Y |
| Japan - ENCS | Y |
| Korea - KECI | Y |
| New Zealand - NZIoC | Υ |
| Philippines - PICCS | Υ |
| USA - TSCA | Υ |
| Legend: | Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors BEI: Biological Exposure Index

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.