

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Identifier

Product Name	ETHANOL
Chemical Name	Not Available
Identifying Code	5600

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Recommended Use	industrial solvent
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Details of Manufacturer

Company Name	PSC Trading Pty Ltd
Address	2/33 Henry Wilson Drive, Rosebud, VIC 3939
Telephone	03 9005 6488
Website	Not Available
Email	info@psctrading.com.au

Emergency Telephone number


Poisons Information	13 11 26
Other emergency numbers	0403 040 174

SECTION 2: HAZARD IDENTIFICATION

Classification of the substance or mixture	<p>FLAMMABLE LIQUIDS - Category 2</p> <p>SKIN CORROSION/IRRITATION - Category 2</p> <p>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1</p> <p>SPECIFIC TARGET ORGAN TOXICITY(SINGLE EXPOSURE) (Narcotic effects) - Category 3</p>
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ETHANOL

Label Elements

GHS label elements		
Hazard pictograms		
SIGNAL WORD		DANGER
Hazard statements		<p>Highly Flammable liquid and vapour</p> <p>Harmful by inhalation and if swallowed</p> <p>Causes eye and skin irritation</p> <p>May cause drowsiness or dizziness</p>
Other hazards	P102 Keep out of reach of children, P103 Read label before use	
Precautionary statements	<p>Wear protective gloves. Wear eye or face protection: Recommended: Safety glasses</p> <p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking</p>	
Prevention	<p>Use explosion proof electrical, ventilating, lighting and all material handling equipment. Use non sparking tools</p> <p>Take precautionary measures against static discharge. Keep container tightly closed, use in well ventilated area. Avoid breathing vapour. Wash hands thoroughly after handling.</p>	
Response	<p>IF INHALED: Remove victim to fresh air, call POISON CENTRE or doctor</p> <p>IF ON SKIN(or hair) take off contaminated clothing. Rinse skin with water/shower</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses carefully.</p>	
Storage	Store locked up. Store in well ventilated place. Keep cool	
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.	

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances	Mixture	
CAS No	% (weight)	Chemical
64-17-5	100	ethanol

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Eye Contact	<p>If this product comes in contact with eyes:</p> <ul style="list-style-type: none"> ▶ Wash out immediately with water ▶ If irritation continues, seek medical advice ▶ Removing contact lenses after an eye injury should only be undertaken by skilled personnel
Skin Contact	<p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"> ▶ Flush skin and hair with running water (and soap if available) ▶ Seek medical attention in event of irritation ▶ Wash contaminated clothing before re-use
Inhalation	<ul style="list-style-type: none"> ▶ Move to fresh air ▶ Provide artificial respiration if not breathing or irregular ▶ If breathing difficulties seek medical attention
Ingestion	<ul style="list-style-type: none"> ▶ Rinse mouth with water ▶ Do not induce vomiting, if in doubt contact Poisons Information Centre or doctor

Most important symptoms and effects, both acute and delayed:

Information found under Description of first aid measures and Indication of immediate medical attention and special treatment needed.

Indication of any immediate medical attention and special treatment needed:

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient
Contact poison treatment specialist immediately if large quantity ingested or inhaled

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media	▶ Use Dry Chemical, CO2(Carbon Dioxide) waterspray(fog) or foam
Unsuitable extinguishing media	▶ Do not use water jet
Specific hazards	<ul style="list-style-type: none"> ▶ Highly flammable liquid and vapour. ▶ In a fire or if heated, a pressure increase will occur and container may burst,with risk of subsequent explosion. ▶ Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	▶ Decomposition products may include the following materials: carbon dioxide, carbon monoxide, dense black smoke

Special protective actions for fire fighters	<ul style="list-style-type: none"> ▶ Isolate scene, removing all non essential personnel. ▶ No action shall be taken involving any personal risk or without suitable training.
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	<ul style="list-style-type: none"> ▶ Move containers from fire area if this can be done without risk ▶ Cool fire exposed containers with water spray ▶ Prevent run off from fire fighting to enter drains or water courses
Special protective equipment for fire fighters	<ul style="list-style-type: none"> ▶ Wear appropriate protective equipment and gloves ▶ Wear self contained breathing apparatus with full face-piece operated in positive pressure mode.
Hazchem Code	2YE

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	<ul style="list-style-type: none"> ▶ No action shall be taken involving any personal risk or without suitable training ▶ Evacuate surrounding areas.Keep unnecessary and unprotected personnel from entering ▶ Do not touch or walk through spilled material ▶ Shut off all ignition sources.No flares, smoking or flames in hazard area ▶ Do not breathe vapour or mist. Provide adequate ventilation
For emergency responders	▶ If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also information in "For non-emergency personnel"
Environmental precautions	<ul style="list-style-type: none"> ▶ Avoid dispersal of spilled material and runoff and contact with soil,waterways,drains and sewers. ▶ Inform the relevent authorities if product has caused environmental pollution(sewers, waterways, soil or air)

Methods and materials for containment and cleaning up

Minor Spills	<ul style="list-style-type: none"> ▶ Clean up all spills immediately ▶ Stop leak if without risk, move containers from spill area, absorb with inert dry material eg sand,sawdust,earth ▶ Use spark proof tools and explosion proof equipment. ▶ Place spillage and cleaning media in a container for disposal with licensed waste disposal contractor
Major Spills	<ul style="list-style-type: none"> ▶ Stop leak if without risk. Move containers from spill area ▶ Evacuate personnel to safe area. Ventilate.Approach spill from upwind direction. ▶ Use spark proof tools and explosion proof equipment. ▶ Prevent spillage from entering drains, sewers, water course, basements or confined areas. ▶ Contain and collect spill with non-combustible absorbent material eg sand,sawdust,earth ▶ Contaminated absobent material may pose the same hazard as spilled product. ▶ Pick up and transfer to properly labelled containers.For disposal see Section 13

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Safe Handling	<ul style="list-style-type: none"> ▶ Wear protective clothing when risk of exposure occurs.Avoid contact with eyes and skin ▶ Use in a well-ventilated area, do not breathe vapour or mist ▶ Wash thoroughly after handling ▶ When handling do not eat,drink or smoke ▶ Keep containers securely sealed when not in use ▶ Do not store in unlabelled containers ▶ Store and use away from heat, sparks open flame or other ignition source ▶ Use explosion proof electrical (ventilating, lighting and material handling) equipment ▶ Use only non sparking tools ▶ Take precautionary measures against electrostatic discharges ▶ Empty containers retain product residue and can be hazardous. Do not reuse container.
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Conditions for safe storage

	▶ Store in accordance with local regulations
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Conditions for safe storage	<ul style="list-style-type: none"> ▶ Store in segregated and approved area ▶ Store in original container protected from direct sunlight, in a cool, dry, well-ventilated area. ▶ Store away from incompatible materials and foodstuff containers. Store locked up ▶ Eliminate all ignition sources, separate from oxidizing materials ▶ Keep containers securely sealed when not in use, opened containers must be resealed and stored upright ▶ Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination
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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Component	Exposure limits
ethanol	Safe work Australia (Australia, 1/2014) TWA :1880 mg/m ³ 8 hours TWA :1000 ppm 8 hours

Exposure controls

Engineering Controls	<ul style="list-style-type: none"> ▶ Use only in area provided with adequate ventilation ▶ Use process enclosures, local exhaust ventilation sufficient to control worker exposure to airborne contaminants ▶ Engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits ▶ Use explosion proof ventilation equipment
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Personal Protective equipment

Eye Protection	<ul style="list-style-type: none"> ▶ Wear Safety glasses with side shields complying with an approved standard ▶ Chemical goggles
Hand Protection	<ul style="list-style-type: none"> ▶ Wear gloves with chemical resistance. Neoprene, PVC, Butyl rubber ▶ Gloves should be examined for wear and degradation constantly
Skin Protection	<ul style="list-style-type: none"> ▶ Lightweight protective clothing when handling small quantities OTHERWISE wear suitable protective clothing eg. Overalls, appropriate footwear, barrier cream ▶ For protection from static discharges clothing should include anti static overalls, boots and gloves
Respiratory Protection	<ul style="list-style-type: none"> ▶ Select Respirator based on potential hazard that meets appropriate standard or certification ▶ Respirators must be used according to respiratory protection program, ensure fitting and training in use

Hygiene measures

Hygiene measures	<ul style="list-style-type: none"> ▶ Wash hands before breaks and immediately after handling the product ▶ Wash before eating, smoking, and using the toilet and at the end of the working day ▶ Wash contaminated clothing before re-use ▶ Ensure eyewash station and safety showers are close to work area
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	unit of measure	
Physical state		liquid
Colour		clear
Odour		ethanol odour
Odour Threshold		Not Available
pH		Not Available
Melting point/range	(°C)	Not Available
Freezing point	(°C)	-117°C
Boiling point/range	(°C)	78°C
Flash point	(°C)	13°C
Evaporation rate	Butyl acetate=1	253(n-butyl acetate =100)
Flammability(solid,gas)		Not Available
Lower explosion limit	(%)	3.50%

Upper explosion limit	(%)	19%
Vapour Pressure	kPa	44mm Hg@20°C
Relative Vapour Density	air = 1	Not Available
Relative Density	water = 1	Not Available
Water solubility		Soluble
Partition coefficient	n-octanol/water	Not Available
Auto-ignition temperature	(°C)	Not Available
Decomposition temp	(°C)	Not Available
Viscosity		Not Available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	▶ No data available
Chemical stability	▶ Stable under recommended storage conditions
Possibility of hazardous reactions	▶ Under normal storage conditions and use, hazardous reactions will not occur
Conditions to avoid	▶ Avoid all sources of ignition(spark or flame). Do not pressurize,cut,weld,braze,solder,drill,grind or expose to heat
Incompatible Materials	▶ Reactive or incompatible with oxidizing materials
Hazardous decomposition products	▶ Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	LD 50 Inhalation Vapour	Rat	38mg/l	10 hours
	LD50 Oral	Rat	7060mg/kg	-

Sensitization

Not available

Mutagenicity

Not available

Carcinogenicity

Not available

Reproductive toxicity

Not available

Teratogenicity

Not available

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Not available			

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

Not available

Information on the likely routes of exposure : Not available

Potential acute health effects

- Eye contact** : Causes serious eye damage
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness
- Skin contact** : Causes skin irritation
- Ingestion** : Can cause central nervous system (CNS) depression

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following
 - pain
 - watering
 - redness
- Inhalation** : Adverse symptoms may include the following
 - nausea or vomiting
 - headache
 - drowsiness/fatigue
 - dizziness/vertigo
 - unconsciousness
- Skin contact** : Adverse symptoms may include the following
 - pain or irritation
 - redness
- Ingestion** : Adverse symptoms may include the following
 - stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure:

- Potential immediate effects** : Not available
- Potential delayed effects** : Not available

Long Term exposure:

- Potential immediate effects** : Not available
- Potential delayed effects** : Not available

Potential chronic health effects : Not available

- General** : No known significant effects or critical hazards
- Carcinogenicity** : No known significant effects or critical hazards
- Mutagenicity** : No known significant effects or critical hazards
- Teratogenicity** : No known significant effects or critical hazards
- Developmental effects** : No known significant effects or critical hazards
- Fertility effects** : No known significant effects or critical hazards

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 1000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000 µg/l Fresh water	Fish - Golden ide	48 hours

Persistence and degradability

Biodegradable

Product/ingredient name	LogPow	BCF	Potential
ethanol		-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available




Other adverse effects

: No Known significant effects or critical hazards

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal method	▶ In accordance with local council, state environmental authority and national regulations ▶ Discharging waste into drains, sewers and waterways is forbidden
Contaminated packaging	▶ Recycle as first consideration, landfill or incineration when recycling not possible

SECTION 14: TRANSPORT INFORMATION

	ADG Code Transport by road and rail	Marine Transport (IMO/IMDG)	Air Transport (ICAO/IATA)
UN Number	1170	1170	1170
Proper Shipping Name	ETHANOL	ETHANOL	ETHANOL
Dangerous Goods Class	3 	3 	3 
Packing Group	II	II	II
Environmental Hazards			
Additional information	Hazchem code: 2YE		
Special precautions for user	Transport within user's premises always transport in closed containers that are upright and secure. Ensure that persons transporting know what to do in the event of an accident or spillage		

SECTION 15: REGULATORY INFORMATION

Safety, Health and Environmental regulations/legislation specific for the substance or mixture:

No known specific national and/or regional regulations applicable to this product (including ingredients)

Standard Uniform Schedule of Medicines and Poisons	Not regulated
Model Work Health and Safety Regulations- Scheduled Substances	No listed substance
National Inventory (AICS)	All of the components are listed or exempted
New Zealand inventory of chemicals (NZIoC)	All of the components are listed or exempted
HSNO Group Standard	Solvents
HSNO Classification	3.1 - FLAMMABLE LIQUIDS - Category B 6.1 - ACUTE TOXICITY (oral) - Category E 6.3 - SKIN IRRITATION - Category B 6.4 - EYE IRRITATION - Category A (Irritant)
International Regulations: Chemical Weapon Convention List Schedules I, II & III Chemicals	not listed
Montreal Protocol	Not listed

Stockholm Convention on POP	Not listed
Rotterdam Convention on PIC	Not listed
UNECE Aarhus Protocol on POP	Not listed
International Lists - National Inventory	
Canada	All components are listed or exempted
China	All components are listed or exempted
Europe	All components are listed or exempted
Japan	Japan Inventory (ENCS) All components are listed or exempted Japan Inventory (ISHL) Not determined
Malaysia	All components are listed or exempted
New Zealand	All components are listed or exempted
Philippines	All components are listed or exempted
Republic of Korea	All components are listed or exempted
Taiwan	All components are listed or exempted
Turkey	All components are listed or exempted
United States	All components are listed or exempted

SECTION 16: OTHER INFORMATION

Issue date 13/04/2017
Revision date 18/09/2019
Version 2.1
Reason for revision GHS compliant

Abbreviations and acronyms:

ADG Australian Dangerous Goods Code
GHS Globally Harmonised System
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods
UN United Nations
AICS Australian Inventory of Chemical Substances
ICAO International Civil Aviation Organization
IMO Australian Inventory of Chemical Substances
POP Persistent Organic Pollutants
PIC Prior Informed Consent

Information provided in this Safety Data Sheet is correct to the best of our knowledge, data and belief at the date of publication.

The information is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.