

TRULUX SAFETY DATA SHEET

Provides critical information about hazardous chemicals.

1.1 COMPANY IDENTIFICATION

Company's Name: Trulux Pty Ltd
Email address: info@trulux.com.au
Website: www.trulux.com.au
Contact number: +61 (02) 9975 2655
Address: C3/ 1-3 Rodborough Rd, Frenchs Forest NSW 2086 Australia

1.2 PRODUCT IDENTIFICATION

Trade name: Glycerin
Reference number: RMTR-0264B
Classification: Refer to clause 2

1.3 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses: Raw Material
Uses advised against: No further information available.

1.4 DETAILS OF THE SUPPLIER OF THE SUBSTANCE INFORMATION SHEET

Supplier's Company: Trulux Pty Ltd
Website: www.trulux.com.au
Address: C3/ 1-3 Rodborough Rd, Frenchs Forest NSW 2086 Australia

Trade Name: Glycerin
TR Ref. Number: RMTR-0264B

Doc: RMSDS - Glycerin
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1.5 EMERGENCY CONTACTS – INSTITUTIONAL CENTRES

Australia

Poisons Information Centre 13 11 26

2 HAZARDS IDENTIFICATION

Hazard Identification: Not classified as a GHS Hazardous Chemical to the Australian Criteria. Not Dangerous Goods, nor a Scheduled Poison, nor an Environmental Hazard to the UN GHS Criteria.
Not a Workplace Hazardous Substance (for info only).

GHS Hazardous Chemical (AU): No

Other Information: A Combustible Liquid C2 to AS1940 (Flash Point 160-180°C).

3 COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration (%)
Glycerine (Glycerol)	56-81-5	> 99.0
Moisture	7732-18-5	< 0.5

Other Information: Glycerine (Glycerol) is prepared by the reaction of the Triglycerides in Vegetable Oils to form Glycerol.
Glycerine 4808K [417114 & 417181] are sourced from Rapeseed (Canola) Oil &/or Sunflower Oil.

4 FIRST AID MEASURES

Inhalation: Remove to fresh air. Seek medical advice if effects persist.

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Ingestion:	Rinse mouth thoroughly with water. Drink 1-2 glasses of water to dilute. Seek medical advice if effects persist.
Skin contact:	Remove contaminated clothing. Wash skin thoroughly with mild soap & water.
Eye contact:	Flush the eyes with large amounts of water for at least 15 minutes. Eyelids to be lifted occasionally and held open to aid rinsing. Seek medical advice if effects persist.
First Aid Facility:	Eye wash immediately available, plus a safety shower and normal washroom facilities nearby.
Advice to doctor:	Treat symptomatically. High doses will increase patient's sugar & fat levels.

5 FIRE FIGHTING MEASURES

Type of Hazard:	Combustible Liquid (Flash Point 160-180°C)
Fire Hazard Properties:	<p>Hazardous Decomposition Products: Overheating at >140°C (it starts to decompose to water vapour and toxic Acrolein fumes) and generates organic decomposition vapours that cause its ability to Flash at 160 - 180°C.</p> <p>At its Boiling Point (290°C approx.) it rapidly decomposes.</p> <p>During combustion unidentified organic compounds may be formed, including toxic Acrolein.</p> <p>Full combustion produces Carbon Dioxide, Carbon Monoxide and water.</p>
Suitable extinguishing media:	Water fog, foam, Carbon Dioxide, dry chemical.

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When using water spray, boil over may occur when the product temperature reaches the boiling point of water.

Protective Equipment: To protect from hazardous decomposition products, wear positive pressure Self-Contained Breathing Apparatus (SCBA) and full protective equipment.

Procedures: Keep unnecessary people away from area. Isolate the hazard area.

6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Spillage: Wear appropriate protective clothing. Contain with absorbent, earth or sand - prevent contamination of drains and waterways. Place in clean labelled containers for recycling or disposal. If the product has escaped into a watercourse or drainage system notify the local Environment Protection Authority.

7 HANDLING AND STORAGE

Precautions for safe handling: Avoid breathing mists or hot vapours and keep ignition sources away. Wear protective clothing to avoid unnecessary contact. For easier handling as the liquid, warm to > 25 °C.

Conditions for safe storage: Keep containers closed and away from heat. To keep liquid, store at > 19 °C. Can be stored in common containers inert to Glycerine such as Stainless Steel, Aluminium or Phenolic lined compartments at a temperature < 60 °C. Tanks should be sealed with an air-breather moisture trap or kept under a Nitrogen blanket to prevent moisture absorption during prolonged storage.

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Classified as an AS1940 Combustible Liquid C2 for storage and handling.
Store and handle in accordance with Work Health and Safety Regulations
or Occupational Health & Safety Regulations in your State/Territory.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards: Specific exposure standards established by Safe Work Australia (formerly the ASCC, formerly NOHSC).

Glycerin (mist) CAS 56-81-5 10 mg/L TWA

Hazardous Decomposition Products (from overheating > 140 °C & fires):

Acrolein CAS 107-02-8 0.1 ppm 0.23 mg/L TWA 0.3 ppm 0.69 mg/L STEL

Engineering Controls: For hot operations (near the flash point) and where mists are formed: local exhaust ventilation may be necessary, and all equipment must be spark proof and explosion proof.

Personal Protective Equipment: Avoid breathing mists or hot vapours.
Wear safety glasses with side shields to protect against splashes.
When inhalation comfort levels may be exceeded, use an organic vapour respirator meeting AS1715/1716.

No skin protection, except clean body-covering clothes, should be needed.

Hot liquids will require thermal protective clothing.

Use impervious gloves (e.g. Neoprene, Butyl Rubber or plastic) when prolonged or frequent repeated contact will occur.

Always wash hands before smoking, eating, drinking or using the toilet.

Wash contaminated clothing and protective equipment before storing/re-using.

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9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (colour, physical form, shape)	Colourless to very light yellow, transparent, viscous liquid with no odour. Sweet taste. Will absorb moisture from the air (hygroscopic).
Vapour Pressure:	0.0025 mm Hg at 20°C; <0.2 mm Hg at 20°C; 1.3 kPa at 167°C
Vapour Density:	3.2 (air = 1)
Boiling Point / Range:	290 - 295 °C (with rapid decomposition)
Freezing / Melting Point:	< 20 °C, typically 18 - 19 °C (for 100 % Glycerol); 70% Glycerol in Water: Freezing Point -38 °C
Specific Gravity / Density:	1.261 at 20°C; 1.260 at 25°C; 1.24 at 50°C; 1.21 at 100°C
Flammability:	Combustible Liquid C2 to AS1940 (Flash Point 160-180°C). Not readily combustible unless heated to near its Flash Point. However, it will burn readily under fire conditions.
Flash Point:	160°C (Closed Cup)
Method of Detecting Flash Point:	177°C (Open Cup)
Upper and lower flammable (explosive) limits in air:	LFL: 2.7% UFL: 19%
Ignition Temperature:	370-400°C
Viscosity:	1.41 mPa.s at 20°C (dynamic)
Percent Volatile:	Nil at 20°C; < 0.5 % (moisture) at 105°C
Solubility:	Soluble in water. Miscible with Ethanol; Ethyl Acetate; slightly soluble in Acetone. Insoluble in Diethyl Ether; in Chloroform; in Oils and Fats.
Octanol/water partition coefficient:	log Pow: -1.7 to -2.6
Decomposition Temperature:	>140°C (it starts to decompose to water vapour and toxic Acrolein fumes) and generates organic decomposition vapours that causes it to Flash at 160-180°C. At its Boiling Point (290°C approx.) it rapidly decomposes.

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Molecular Weight and Formula: MW: 92.1
Formula: **C3-H8-O3** or **CH₂(OH)-CH(OH)-CH₂(OH)**
or **CH₂-CH-CH₂**
OH OH OH

pH: 5.5 - 7.5 neutral (10-33% solution in water)

10 STABILITY AND REACTIVITY

Chemical Stability: Stable. Absorbs moisture from the air (hygroscopic). When heated to >140°C it starts to decompose (leading to its Flash Point in the range 160-180°C), with further heating to its Boiling Point of 290°C, it then rapidly decomposes

Possibility of Hazardous Reaction: None known under conditions of normal use. Glycerol liquid mixed with strong Oxidizing Agents are a high fire risk. Hazardous Polymerisation will not occur at room temp. Hot Glycerol is able to polymerise above 150°C

Conditions to Avoid: Humidity, heat and ignition sources.

Incompatible Materials: Oxidising agents; strong acids and strong bases.

Hazardous Decomposition Products: Overheating at >140°C results in starting to decomposition to water vapour and toxic Acrolein fumes. Higher temperatures lead to these organic decomposition products causing its Flash Point of 160-180°C. During combustion unidentified organic compounds form including toxic Acrolein. Full combustion produces Carbon Dioxide, Carbon Monoxide and water.

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11 TOXICOLOGICAL INFORMATION

Ingestion:	Slightly harmful if swallowed. Swallowing it may cause nausea and diarrhea. High doses may effect the Central Nervous System and injure the Kidneys.
Inhalation:	Not expected to be an inhalation hazard at normal processing temperatures. Repeated exposure to mist or heated vapour is likely to be irritating to the respiratory system.
Skin:	Prolonged or repeated exposure may cause skin irritation.
Eye:	May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.
Chronic effects:	There are no adverse effects expected from low level repeated exposure to Glycerol.
Toxicological Data:	Acute Oral Toxicity LD50 (rat): 12600 mg/kg Acute Skin Toxicity LD50 (rat): >10000 mg/kg Acute Inhalation Toxicity LC50 (rat): 570 mg/m ³ /1hr SKIN IRRITATION (Rabbit): Mild (500 mg for 24hrs) [RTECS] EYE IRRITATION (Rabbit): Mild (126 mg) [RTECS] MUTAGENIC EFFECTS (Ames Test): Negative

12 ECOLOGICAL INFORMATION

Ecotoxicity:	Slightly water polluting substance. Avoid contaminating waterways, drains or sewers.
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Acute Fish Aquatic Toxicity LC50 (Carp, 48hrs): >5000 mg/L Acute Daphnia
Aquatic Toxicity EC50 (Daphnia Magna, 3hrs): >1000 mg/L

BOD5 : 0.58 g O2/g

COD(Cr): 1.1 g O2/g

BIODEGRADABILITY: 63% degradation in 14 days [OECD 301C]

13 DISPOSAL CONSIDERATIONS

Disposal Methods including packaging: Disposal: In accordance with Local, State & Federal EPA waste regulations. Advise its Combustible Liquid (Flash Point 160-180°C) nature. Normally suitable for composting, reaction or incineration by an EPA approved facility.

14 TRANSPORT INFORMATION

Land: Not classified as dangerous for transport by land (Australian Code for the Transport of Dangerous Goods by Road & Rail).

Sea: Not classified as dangerous for transport by sea (IMDG Code).

Air: Not classified as dangerous for transport by air (ICAO/IATA).

15 REGULATORY AND OTHER INFORMATION

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

Poison Schedule: Not scheduled.

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Workplace hazardous substance:	No
AICS:	Yes
Chemical Schemes:	All ingredients are on Australian Inventory of Chemical Substances (AICS). Also covered by Aust. Pesticides & Veterinary Medicines Authority (APVMA). Also covered by the Australian Therapeutic Goods Administration (TGA). Also covered by Foods Standards Australia & New Zealand (FSANZ).

16 OTHER INFORMATION

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition or other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user.

This sheet completes the technical sheets but it does not replace them. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied is made and Trulux Pty Ltd assumes no legal responsibility or liability whatsoever resulting from its use. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

This listing must not be considered exhaustive. It does exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.

The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regard to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use.

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