

# TRULUX SAFETY DATA SHEET

Provides critical information about hazardous chemicals.

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## 1.1 COMPANY IDENTIFICATION

Company's Name: Trulux Pty Ltd  
Email address: [info@trulux.com.au](mailto:info@trulux.com.au)  
Website: [www.trulux.com.au](http://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: Dimethyl Isosorbide  
Reference number: RMTR-0470A  
Classification: Not classified as a GHS Hazardous Chemical to the Australian Criteria.

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

Identified uses: Raw Material  
Uses advised against: None to our knowledge.

## 1.4 DETAILS OF THE SUPPLIER OF THE SUBSTANCE INFORMATION SHEET

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

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**TR Ref. Number:** RMTR-0470A

**Doc:** RMSDS-Dimethyl Isosorbide  
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## 1.5 EMERGENCY CONTACTS – INSTITUTIONAL CENTRES

Australia

Poisons Information Centre 13 11 26

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## 2 HAZARDS IDENTIFICATION

Adverse human health effects:

Repeated exposure to mist or heated vapour is likely to be irritating to the respiratory system.

Environmental effects:

Slightly water polluting substance.

Physical and chemical hazards:

- Fire or explosion:

Combustible Liquid C2 to AS1940 (Flash Point 116°C).

Classification of the products

Not classified as a GHS Hazardous Chemical to the Australian Criteria. Not Dangerous Goods, nor a Scheduled Poison, nor Workplace Hazardous Substance.

Further Information:

No further information available

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## 3 COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Classification
Dimethyl Isosorbide	5306-85-4	>99%

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## 4 FIRST AID MEASURES

Inhalation:

If respiratory irritation occurs, remove individual to fresh air.

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Ingestion:	Rinse mouth thoroughly with water. Drink a glass of water to dilute. Seek medical advice if effects persist.
Skin contact:	If necessary, remove contamination clothing. Wash off with soap and plenty of water. In all cases of doubt seek medical advice.
Eye contact:	Remove contacts lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. In all cases of doubt seek medical advice.
Most important symptoms and effects, both acute and delayed (if relevant):	No further information available.
Indication of any immediate medical attention and special treatment needed:	Notes to physician: Treat symptomatically.

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## 5 FIRE FIGHTING MEASURES

Classification:	Combustible Liquid (Flash Point 116°C Closed Cup) Keep unnecessary people away from area. Isolate hazard area.
Suitable extinguishing media:	In case of fire, use water fog, foam, Carbon Dioxide, dry chemical. When using water spray, boil over may occur when the product temperature reaches the boiling point of water.
Hazardous Decomposition Products:	Overheating results in decomposition to water vapour and harmful fumes. During combustion unidentified harmful organic compounds may be formed. Full combustion produces Carbon Dioxide, Carbon Monoxide and water.
Advice for firefighters	To protect from hazardous decomposition products, Wear positive pressure Self-Contained Breathing Apparatus and full protective equipment.
Decomposition temperature:	>220°C (starts to decompose releasing harmful fumes) (estimated)

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## 6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	For personal protection see section 8.
Environmental precautions:	Prevent leakage or spillage. Do not discharge product into the aquatic environment without pre-treatment.
Methods for cleaning up:	
- Neutralization	Soak up with inert absorbent material.
- Cleaning/ decontamination	Wash non-recoverable remainder with large amounts of water.
- Disposal	Dispose of contaminated materials in accordance with current regulations.

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## 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.
1- General protective measures:	1- Avoid contact with the inside of the eye and clothing. Wash hands before breaks and after handling product. Provide sufficient air exchange and/ or exhaust in work rooms.
2- Measures to prevent Fire:	2- Keep away from sources of ignition – no smoking.
- Conditions for safe storage, including any incompatibilities:	Keep containers closed and away from heat. Classified as an AS1940 Combustible Liquid C2 for storage and handling.
- Specific and uses	Store and handle in accordance with Work Health and Safety Regulations or Occupational Health & Safety Regulations in your State/Territory.

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## 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters No specific exposure standard has been established by Safe Work Australia (formerly the ASCC, formerly NOHSC).

Exposure Controls:

- General Engineering Measures Local ventilation is usually preferred. If the ventilation is suitable, it is not essential to wear respiratory equipment. Avoid breathing mists or hot vapours. When inhalation comfort levels may be exceeded, use an organic vapour respirator meeting AS1715/1716.
- General Industrial Hygiene Practices Avoid contact of chemicals with skin, inside of the eye and clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Wear clean body-covering clothes to avoid inadvertent skin contact
- General Hand Protections Measurements Wear impermeable protective gloves. Use impervious gloves (e.g. Neoprene, Butyl Rubber or plastic) when prolonged or frequent repeated contact will occur.
- General Eye Protection Measures Wear safety goggles.
- Further information: 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. All atmospheric contamination should be kept to as low a level as is practically possible.

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form	Liquid
Appearance	Clear, slightly hazy, oily liquid with a slight odour.
Decomposition Temperature	>220°C (starts to decompose releasing harmful fumes) (estimated)
Melting Point	<-60°C
Boiling Point	234-242°C (with decomposition) [ECHA RSD & NICNAS STD/1027]
Specific Gravity	1.166 at 20°C 1.15 at 25°C
pH	6-8 neutral (10% solution in water)
Vapour Pressure	12.5-13.0Pa at 20°C
Volatile Component	Nil at 20°C
Flash Point	116°C (Closed Cup)
Flammability	Combustible Liquid C2 to AS1940 (Flash Point 116°C). Not readily combustible until heated. However, it will burn readily under fire conditions.
Auto-Ignition Temperature	285°C
Molecular Weight	MW : 174.2 Formula: C8-H14-O4
Solubility:	Soluble in water (>1000g/L). Soluble in Isopropanol, Propylene Glycol, Cottonseed Oil. Soluble in Polysorbate 20, Polysorbate 80 Partition Coefficient log Pow: -1.6 to -2.1 [NICNAS STD/1027]

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## 10 STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage and normal usage conditions.

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Hazardous decomposition products	Overheating at >220°C results in decomposition to harmful fumes. During combustion unidentified harmful organic compounds may be formed. Full combustion produces Carbon Dioxide, Carbon Monoxide and water.
Hazardous Polymerisation	Hazardous polymerisation will not occur at room temperature.
Conditions to Avoid:	Heat near ignition sources
Incompatible Materials:	Oxidising agents

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## 11 TOXICOLOGICAL INFORMATION

Toxicology Information	Acute Oral Toxicity LD50 (rat) : >5000 mg/kg Acute Skin Toxicity LD50 (rat) : Not available Acute Inhalation Toxicity LC50 (rat): Not available Skin irritation (Rabbit): Not a skin irritant [ECHA RSD] EYE Irritation (Rabbit): Not an eye irritant [ECHA RSD] SKIN Sensitisation (human volunteers): No evidence of skin sensitisation [NICNAS STD/1027] Mutagenic effects (Ames Test): Negative
Ingestion:	Slightly harmful if swallowed.
Inhalation:	Not expected to be an inhalation hazard at temperatures <90°C. Repeated exposure to mist or heated vapour is likely to be irritating to the respiratory system.
Skin:	Prolonged or repeated exposure does not cause skin irritation.
Eye:	Causes slight eye irritation. Corneal injury is unlikely.
Chronic Effects	There are no adverse effects expected from repeated exposure to Dimethyl IsoSorbide.
Further information (if necessary):	No further information available

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## 12 ECOLOGICAL INFORMATION

Ecological Information	Slightly water polluting substance. Avoid contaminating waterways, drains or sewers.
Toxicity:	Acute Fish Aquatic Toxicity EC50 (Fish, 96hrs) : >1000 mg/L Acute Daphnia Aquatic Toxicity EC50 (Daphnia Magna, 48hrs): >1000 mg/L Acute Algae Aquatic Toxicity EC50 (Green Algae, 96hrs) : >1000 mg/L [From NICNAS STD/1027]
Biodegradability:	No biodegradation in water after 28 days Not readily biodegradable.
PBT & VpVb Assessment	This substance is not PBT / vPvB
GHS Criteria	Aquatic Environment (Acute/Short-Term) Hazard: Not Classified. Aquatic Environment (Long-Term) Hazard : Not Classified. [ECHA Registered Substances Database]

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## 13 DISPOSAL CONSIDERATIONS

Waste treatment methods:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Advise its Combustible Liquid (Flash Point 116°C) nature. Normally suitable for composting, reaction or incineration by an EPA approved facility.
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## 14 TRANSPORT INFORMATION

NOT defined as Dangerous Goods by the Australian Code for the Transport of Dangerous Goods by Road & Rail; by the IATA Air Transport Dangerous Goods Regulations; nor by the IMDG (International Maritime Dangerous Goods) Code.

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## 15 REGULATORY AND OTHER INFORMATION

Poisons Schedule	Not Scheduled
Packaging & Labelling	Not classified as a GHS Hazardous Chemical to the Australian Criteria. Not Dangerous Goods, nor a Scheduled Poison, nor Workplace Hazardous Substance. A Combustible Liquid C2 to AS1940 (Flash Point 116°C).
AICS (Australia)	All ingredients are on the Australian Inventory of Chemical Substances (AICS).

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## 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.

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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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