

# 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: Patch20  
Reference number: RMTR-0377A  
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](http://www.trulux.com.au)  
Address: C3/ 1-3 Rodborough Rd, Frenchs Forest NSW 2086 Australia

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## 1.5 EMERGENCY CONTACTS – INSTITUTIONAL CENTRES

Australia

Poisons Information Centre 13 11 26

## 2 HAZARD IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product: Eye Dam./Irrit. - 2A - Serious eye damage/eye irritation

Label elements

- Signal Word: Warning
- Hazard Statement: H319 Causes serious eye irritation.
- Precautionary Statements - Prevention: P280 Wear eye/face protection.  
P264 Wash with plenty of water and soap thoroughly after handling.
- Precautionary Statements - Response: 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 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.

Hazards not otherwise classified: No specific dangers known, if the regulations/notes for storage and handling are considered.

## 3 COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration (%)
pentane-1,2-diol	5343-92-0	1.0 - 3.0

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glycerol	56-81-5	15.0 - 20.0
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## 4 FIRST AID MEASURES

General advice:	Immediately remove contaminated clothing. First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
Inhalation:	If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.
Ingestion:	Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Immediate medical attention required.
Skin contact:	Wash thoroughly with soap and water. If irritation develops, seek medical attention.
Eye contact:	Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
Most important symptoms and effects, both acute and delayed (if relevant):	Symptoms: No significant symptoms are expected due to the non-classification of the product. Hazards: No hazard is expected under intended use and appropriate handling.
Indication of any immediate medical attention and special treatment needed:	Notes to physician: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5 FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water spray, foam, dry powder, carbon dioxide
Special hazards arising from the substance or mixture:	Hazards during fire-fighting: Product is not combustible or explosive.
Advice for firefighters	Protective equipment for fire-fighting: Wear self-contained breathing apparatus and chemical-protective clothing.

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## 6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	Information regarding personal protective measures see, section 8.
Environmental precautions:	Do not discharge into drains/surface waters/groundwater. Discharge into the environment must be avoided.
Methods and material for containment and cleaning up:	For small amounts: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations. For large amounts: Dike spillage. Pick up with suitable appliance and dispose of.

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## 7 HANDLING AND STORAGE

Precautions for safe handling:

- |                                 |                                                                           |
|---------------------------------|---------------------------------------------------------------------------|
| 1- General protective measures: | 1- Handle in accordance with good industrial hygiene and safety practice. |
| 2- Measures to prevent Fire:    | 2- No special precautions necessary.                                      |
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Conditions for safe storage, including any incompatibilities:

Keep container tightly closed and dry; store in a cool place. To be mixed before using. Close containers after use. Protect against heat.

Suitable materials for containers: High density polyethylene (HDPE), glass.

Storage temperature: 10 - 30 °C

## 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Components with occupational exposure limits

Glycerol	OSHA PEL	PEL 15 mg/m <sup>3</sup> Total dust; PEL 5 mg/m <sup>3</sup> Respirable fraction; TWA value 10 mg/m <sup>3</sup> Total dust; TWA value 5 mg/m <sup>3</sup> Respirable fraction
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Exposure Controls:

- General Respiratory Protection Breathing protection if gases/vapours are formed. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.
- General Industrial Hygiene Practices Handle in accordance with good industrial hygiene and safety practice. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs.
- General Body Protection Body protection must be chosen based on level of activity and exposure.
- General Hand Protection Chemical resistant protective gloves
- General Eye Protection Tightly fitting safety goggles (chemical goggles).

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form:	Liquid
Colour:	Colourless to yellow clear, opalescent
Odour:	Product specific
Boiling Range:	90 - 110 °C
Flash Point:	> 130 °C
Flammability:	Not flammable
Density:	approx. 1.1 g/cm <sup>3</sup> ( 20 °C)
Self-ignition Temperature:	Not self-igniting
Viscosity, dynamic:	400 - 4,000 mPa.s ( 20 °C)
Water solubility:	dispersible ( 20 °C)
Evaporation Rate:	Value can be approximated from Henry's Law Constant or vapor pressure.
pH:	4.0 - 8.0 ( 20 °C)

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## 10 STABILITY AND REACTIVITY

Reactivity:	No hazardous reactions if stored and handled as prescribed/indicated. Oxidizing properties: not fire-propagating
Chemical Stability:	The product is chemically stable.
Possibility of Hazardous:	No hazardous reactions if stored and handled as prescribed/indicated.

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Conditions to Avoid:	No special precautions other than good housekeeping of chemicals.
Incompatible Materials:	metal alloys
Hazardous Decomposition Products:	No hazardous decomposition products if stored and handled as prescribed / indicated.
Thermal Decomposition:	No decomposition if stored and handled as prescribed/indicated.

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## 11 TOXICOLOGICAL INFORMATION

Primary routes of exposure: Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity: Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion: Not irritating to the skin. Causes serious eye irritation. The product has not been tested. The statement has been derived from the properties of the individual components.

- Skin: *Information on: pentane-1,2-diol*  
*Species: rabbit*  
*Result: non-irritant*  
*Method: OECD Guideline 404*
- Eye: *Information on: pentane-1,2-diol*  
*Species: rabbit*  
*Result: Risk of serious damage to eyes.*  
*Method: OECD Guideline 405*

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Sensitization: Based on the ingredients, there is no suspicion of a skin-sensitizing potential. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

## Chronic Toxicity/Effects

- Repeated dose toxicity: No further information available.
- Genetic toxicity: Based on the ingredients, there is no suspicion of a mutagenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.
- Carcinogenicity: Based on the ingredients there is no suspicion of a carcinogenic effect in humans.
- Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect.
- Teratogenicity: The chemical structure does not suggest a specific alert for such an effect.

Symptoms of Exposure: No significant symptoms are expected due to the non-classification of the product.

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## 12 ECOLOGICAL INFORMATION

### Toxicity

- Aquatic toxicity: At the present state of knowledge, no negative ecological effects are expected.  
The product has not been tested. The statement has been derived from the properties of the individual components.

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- **Toxicity to fish:**

*Information on: Glycerol*  
LC50 (48 h) > 250 mg/l, *Leuciscus idus* (OECD Guideline 203, static)  
LC50 (96 h) 57 mL/L, *Oncorhynchus mykiss* (static)

*Information on: urea*  
LC50 (96 h) > 6,810 mg/l, *Leuciscus idus* (other, static)
  - **Aquatic invertebrates:**

*Information on: pentane-1,2-diol*  
EC50 (48 h) > 500 mg/l, *Daphnia magna* (Directive 79/831/EEC, static)  
The details of the toxic effect relate to the nominal concentration.

*Information on: Glycerol*  
EC50 (24 h) > 10,000 mg/l, *Daphnia magna* (DIN 38412 Part 11, static)  
The details of the toxic effect relate to the nominal concentration. (24 h)  
500 mg/l, *Daphnia magna*

*Information on: urea*  
EC50 (24 h) > 10,000 mg/l, *Daphnia magna* (DIN 38412 Part 11, static)
  - **Aquatic plants:**

*Information on: pentane-1,2-diol*  
EC50 (72 h) 9,335 mg/l (growth rate), *Scenedesmus subspicatus* (DIN 38412 Part 9, static)  
The details of the toxic effect relate to the nominal concentration.

*Information on: Glycerol*  
EC50 (168 h) > 10,000 mg/l (growth rate), *Scenedesmus quadricauda* (DIN 38412 Part 9, static)  
The details of the toxic effect relate to the nominal concentration.

*Information on: urea*  
Toxic limit concentration (8 d) > 10,000 mg/l, *Scenedesmus quadricauda* (DIN 38412 Part 9, static) Literature data.

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## Persistence and degradability

- **Assessment**  
biodegradation and  
elimination (H<sub>2</sub>O)
  - **Elimination information:**
- Product is expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.
- Information on: pentane-1,2-diol*  
73 % DOC reduction (28 d) (OECD 301E; 84/449/EEC, C.3)
- Information on: Glycerol*  
92 % BOD of the ThOD (30 d) (OECD 301D; EEC 92/69, C.4-E) (aerobic, aerobic microorganisms)  
63 % BOD of COD (14 d) (OECD 301C; ISO 9408; 92/69/EEC, C.4-F) (aerobic, Inoculum conforming to MITI requirements (OECD 301C))  
93 % BOD of the ThOD (30 d) (OECD 301D; EEC 92/69, C.4-E) (aerobic, municipal sewage treatment plant effluent)

Bioaccumulative potential: Study not necessary due to exposure considerations.

Mobility in soil: Study not necessary due to exposure considerations.

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## 13 DISPOSAL CONSIDERATIONS

Waste disposal of substance: Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

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## 14 TRANSPORT INFORMATION

Not dangerous goods according to transport legislation. Transport according to local legislation.

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## 15 REGULATORY AND OTHER INFORMATION

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

- **Federal Regulations**

- Registration status:      Cosmetic    TSCA, US    released / exempt  
                                         Chemical    TSCA, US    blocked / not listed

Chemical Name	CAS Number	CERCLA RQ
disodium hydrogen orthophosphate	7558-79-4	5000 LBS

- **State regulations:**

Chemical Name	CAS Number	State RTK
glycerol	56-81-5	NJ
glycerol	56-81-5	PA

- NFPA Hazard codes      Health: 2  
                                         Fire: 1  
                                         Reactivity: 0
- HMIS III rating      Health: 2  
                                         Flammability: 1  
                                         Physical hazard:0

## 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

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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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