

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: Cremophor RH 40
Reference number: RMTR-0186A
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: Cremophor RH 40

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Doc: RMSDS - Cremophor RH 40

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1.5 EMERGENCY CONTACTS – INSTITUTIONAL CENTRES

Australia

Poisons Information Centre 13 11 26

2 HAZARDS IDENTIFICATION

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

Classification of the product: No need for classification according to GHS criteria for this product.

Label elements: The product does not require a hazard warning label in accordance with GHS criteria.

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

3 COMPOSITION/ INFORMATION ON INGREDIENTS

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

Under the referenced regulation, this product does not contain any components classified for health hazards above the relevant cut off value.

4 FIRST AID MEASURES

General advice: If adverse health effects develop seek medical attention.

Inhalation: If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

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Ingestion:	Rinse mouth and then drink plenty of water.
Skin contact:	After contact with skin, wash immediately with plenty of water. If irritation develops, seek medical attention.
Eye contact:	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention if necessary
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 symptomatically.

5 FIRE FIGHTING MEASURES

Suitable extinguishing media:	In case of fire, use water spray, foam, dry powder, or CO ₂ .
Special hazards arising from the substance or mixture:	Hazards during fire-fighting: harmful vapours Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.
Advice for firefighters	Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear
Further information:	Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective clothing.
Environmental precautions:	Do not discharge into drains/surface waters/groundwater.
Methods for cleaning up:	
- Neutralization	Soak up with inert absorbent material.
- Cleaning/ decontamination	For small amounts: Pick up with suitable appliance and dispose of. For large amounts: Pick up with suitable appliance and dispose of.
- Disposal	Dispose of absorbed material in accordance with regulations.

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- Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame. |
| - Conditions for safe storage, including any incompatibilities: | Keep containers/ package tightly closed in a cool, well ventilated place.
Suitable materials for containers: glass, High density polyethylene (HDPE), Low density polyethylene (LDPE), Stove-lacquer RDL 50, tinned carbon steel (Tinplate).
Storage temperature: $\leq 25\text{ }^{\circ}\text{C}$
Protect from temperatures above: $25\text{ }^{\circ}\text{C}$ |

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Properties of the product change reversibly on exceeding the limit temperature.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Controls:

- General Industrial Hygiene Practices Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.
- General Body Protection Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.
- General Respiratory Protection Respiratory protection in case of vapour/aerosol release.
- General Hand Protections Measurements Chemical resistant protective gloves.
- General Eye Protection Measures Safety glasses with side-shields.

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: pasty
Odour: almost odourless
Colour: white to slightly yellow
Melting Range: 16 - 26 °C

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Flash Point:	242 °C
Flammability:	not flammable
Autoignition:	375 °C
Density:	1.03 g/cm ³ @ 60 °C 1.026 g/cm ³ @ 20 °C
Bulk Density:	approx. 1 kg/l @ 20 °C
Partitioning coefficient n-octanol/water (log Pow):	-0.76
Self-ignition temperature:	Based on its structural properties the product is not classified as self ignit
Thermal Decomposition:	approx. 300 °C
Water solubility:	> 490 g/l @ 23 °C
Miscibility with water:	soluble
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.
pH:	6.0 - 7.0 (100 g/l, 20 °C)

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 stable if stored and handled as prescribed/indicated.
Possibility of Hazardous:	No hazardous reactions if stored and handled as prescribed/indicated.
Conditions to Avoid:	Avoid all sources of ignition: heat, sparks, open flame.

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See MSDS section 7 - Handling and storage.

Incompatible Materials: No substances known that should be avoided.

Hazardous Decomposition Products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition: approx. 300 °C

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: Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Oral: Type of value: LD50
Species: rat
Value: > 20,000 mg/kg (BASF-Test)

Inhalation: Type of value: LC50
Species: rat
Value: > 2.06 mg/l (OECD Guideline 403)
Exposure time: 4 h
Species: rat Value: (BASF-Test)

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Exposure time: 8 h

Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Assessment other acute effects: Based on available Data, the classification criteria are not met.

Irritation / corrosion: Not irritating to the skin. Not irritating to the eyes.

Skin: Species: rabbit
Result: non-irritant
Method: OECD Guideline 404

Eye: Species: rabbit
Result: non-irritant Method: BASF-Test

Sensitization: Skin sensitizing effects were not observed in animal studies.
Guinea pig maximization test
Species: guinea pig
Result: Non-sensitizing.

Aspiration Hazard: No aspiration hazard expected.

Chronic Toxicity/Effects

- Repeated dose toxicity: The information available on the product provides no indication of toxicity on target organs after repeated exposure.
- General Toxicity: In the majority of studies performed with microorganisms and in mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not observed in in vivo tests.

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- **Carcinogenicity:** The chemical structure does not suggest a specific alert for such an effect.
 - **Reproductive toxicity:** The chemical structure does not suggest a specific alert for such an effect.
 - **Teratogenicity:** No indications of a developmental toxic / teratogenic effect were seen in animal studies.

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

12 ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

- **Toxicity to fish:** LC50 (48 h) > 10,000 mg/l, *Oryzias latipes* (YIK S 0102-1974 ITEM 55, static)
Limit concentration test only (LIMIT test). The details of the toxic effect relate to the nominal concentration.
- **Aquatic invertebrates:** EC50 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)
The details of the toxic effect relate to the nominal concentration.

Microorganisms/Effect on activated sludge

- **Toxicity to microorganisms:** OECD Guideline 209 aerobic

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activated sludge, domestic/EC20 (0.5 h): 700 mg/l

Persistence and degradability

- Assessment biodegradation and elimination (H₂O): Readily biodegradable (according to OECD criteria).
- Elimination information: 80 - 90 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic)
Readily biodegradable (according to OECD criteria)

Bioaccumulation potential: Accumulation in organisms is not to be expected.

Mobility in soil: Assessment transport between environmental compartments
Adsorption to solid soil phase is not expected.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff contact with soil, waterways, drains and sewers. 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.

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:

- Registration Status Chemical TSCA, US released / listed
 Cosmetic TSCA, US released / exempt
 Pharma TSCA, US released / exempt

- EPCRA 311/312 (Hazard categories)

Chemical Name	CAS Number	CERCLA RQ
acetaldehyde	75-07-0	1000 LBS

- Safe Drinking Water & Toxic WARNING: This product can expose you to chemicals including
Enforcement Act, CA Prop. ETHYLENE OXIDE, which is known to the State of California to
65: cause cancer and birth defects or other reproductive harm.
 [Other Prop 65 components may be present in the product.]
- NFPA Hazard codes Health: 0
 Fire: 1
 Reactivity: 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 is made and Trulux Pty Ltd assumes no legal responsibility or liability whatsoever resulting from its use. This does

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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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