

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: Vitamin C BP (Ascorbic Acid) - Milled
Reference number: RMTR-0543A
Classification: Refer to clause 2.0

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
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 HAZARDS IDENTIFICATION

Most important hazards No particular hazards known.

3 COMPOSITION/ INFORMATION ON INGREDIENTS

Characterization	Water soluble vitamin; pharmaceuticals, food additive
Chemical name	L (+)-Ascorbic acid
Synonyms	Vitamin C L-Ascorbic acid (5R)-5-[(1S)-1,2-dihydroxyethyl]-3,4-dihydroxyfuran-2(5H)-one
CAS number	50-81-7
EINECS number	200-066-2
Empirical formula	C ₆ H ₈ O ₆
Molecular mass	176.13 g/mol

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4 FIRST AID MEASURES

Eye contact	Rinse immediately with tap water for 10 minutes - open eyelids forcibly
Skin contact	Remove contaminated clothes, wash affected skin with water and soap - do not use any solvents
Inhalation	Remove the casualty to fresh air and keep him/her calm. In the event of symptoms get medical treatment
Note to physician	Treat symptomatically

5 FIRE FIGHTING MEASURES

Suitable extinguishing media	Water spray jet, dry powder, foam, carbon dioxide
Specific hazards	Severe dust explosion hazard
Protection of fire-fighters	Precipitate gases/vapors/mists with water spray

6 ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	Collect solids (avoid dust formation) and hand over to waste removal. Rinse with plenty of water.
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7 HANDLING AND STORAGE

Handling

Technical measures	Processing in closed systems, if possible superposed by inert gas (e.g. nitrogen). Local exhaust ventilation necessary. Take precautionary measures against electrostatic charging. Avoid dust formation; high dust explosion hazard.
Suitable materials	Stainless steel, coated steel (protective lacquer), glass, polyethylene, polypropylene, enamel
Unsuitable materials	Aluminum, copper, zinc, Iron

Storage

Storage conditions	In closed containers. Protected from humidity. Below 30 °C
Packaging materials	Tightly closing; material: coated steel (protective lacquer), glass, polyethylene, polypropylene, PVC.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Measures

See Section 7.

Monitoring

Threshold value air	10 mg/m ³ (defined as 8-hour time-weighted average)
Analytics	Sampling on glass fibre filter and gravimetric or chemical determination

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Personal protective equipment

Respiratory protection	In case of high dust concentrations: particle mask or respirator with independent air supply.
Hand protection	Protective gloves (eg. made of Natural Rubber)
Eye protection	Safety glasses

9 PHYSICAL AND CHEMICAL PROPERTIES

Color	White to almost white
Form	Crystalline powder or colorless crystals
Odour	Almost odorless, with sharp acidic, pleasant taste
Density	0.9 - 1.2 g/ml
Sieve analysis	Retained on 40 mesh NMT 20%, between 40-80 mesh NLT 50%.
Solubility	Free soluble in water Soluble in ethanol (96 percent) Virtually insoluble in ethyl ether Virtually insoluble in chloroform
PH value	2.1 - 2.6 (5 % aqueous solution)
Dissociation constant	pK1 = 4.17 pK2 = 11.57 (water)
Melting temperature	About 190°C (with decomposition)

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10 STABILITY AND REACTIVITY

Stability:	Stable at room temperature under exclusion of humidity
Conditions to avoid	Humidity Warming
Materials to avoid	Oxidizing agents, atmospheric oxygen, bases, metals, metal salts
Note	On prolonged storage, a yellow discoloration may occur through slow decomposition, which does not noticeably diminish biological activity, however in aqueous solutions ascorbic acid is very susceptible to oxidative decomposition, particularly in the presence of alkali resp. heavy metal ions.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	- LD50 11'900 mg/kg (oral, rat) - LD50 8'000 mg/kg (oral, mouse) - LD50 518 mg/kg (i.v., mouse)
Local effects	- Eye: may cause irritations - Mucous membranes: may cause irritations - Skin: may cause irritations; particularly in conjunction with humidity (perspiration).
Chronic toxicity	In predisposed individuals 4-12 g/d may cause urinary calculus

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Mutagenicity	No suspicion of human mutagenicity
Carcinogenicity	Not carcinogenic (several species)
Reproduction toxicity	Not teratogenic, not embryotoxic
Note	- Oral uptake of up to 9 g per day does not produce any serious toxic effects, however, even lesser quantities may cause diarrhoea - RDA (recommended daily allowance): 60 mg

12 ECOLOGICAL INFORMATION

Inherent biodegradability	Well inherently biodegradable 97 %, 5 d; 100 %, 15 d
Ecotoxicity	Barely toxic for fish (rainbow trout): LC50 (96 h) 1020 mg/l The inhibitory concentration relates to re-attachment to substrate (<i>Dreissena polymorpha</i>) MIC (48 h) > 50 mg/l (nominal concentration)
Air pollution	Observe local/national regulations

13 DISPOSAL CONSIDERATIONS

Waste treatment methods:	- Observe local/national regulations regarding waste disposal - Drain very small quantities into wastewater treatment plant - Large amounts: incinerate in qualified installation with flue gas scrubbing
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14 TRANSPORT INFORMATION

Note - Not classified by transport regulations.

15 REGULATORY AND OTHER INFORMATION

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

- Use - Additive for use in food and pharmaceuticals or food additives.
 - Biological activity - 1 I.U. (international unit) of vitamin C corresponds to the activity of 50 µg of pure ascorbic acid
 - Reference literature ISO 11014-1
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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.

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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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