

TRULUX SAFETY DATA SHEET

Provides critical information on hazardous substances or mixtures.

1.1 COMPANY IDENTIFICATION

Company's name:	Trulux Pty Ltd
Email address:	info@trulux.com.au
Website:	www.trulux.com.au
Contact number:	+61 2 5566 0566

1.2 PRODUCT IDENTIFICATION

Trade name:	Betaine
SKU:	RMTR-0141A
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 name:	Trulux Pty Ltd
Website:	www.trulux.com.au
Address:	C3/ 1-3 Rodborough Road, Frenchs Forest NSW 2086 Australia

Trade Name: Betaine
Trulux SKU RMTR-0141A
Doc: RMSDS - Betaine

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Review date: 28/10/2022
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1.5 EMERGENCY CONTACTS - INSTITUTIONAL CENTRES

Australia

Poisons Information Centre 13 11 26

2 HAZARDS IDENTIFICATION

GHS - Classification

Not classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Label Elements

This product is not classified as hazardous according to the UN GHS guideline and labeling is not required.

Other Hazards. Risk which are not included in the classification criteria (e.g. dust explosion hazard)

May form combustible dust concentrations in air.

3 COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration (%)
Betaine Anhydrous	107-43-7	≥ 99 d.s

4 FIRST AID MEASURES

Inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

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Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin Contact

IF ON SKIN: Wash with plenty of soap and water.

Ingestion

Rinse mouth thoroughly with water. IF SWALLOWED. Call a POISON CENTER or doctor/physician if you feel unwell.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

5 FIRE FIGHTING MEASURES

Suitable extinguishing media

Extinguish with alcohol-resistant foam, fire extinguishing powder or water spray.

Specific hazards arising from the chemical

May form combustible dust concentrations in air. Decomposes on heating. Decomposition products: Trimethylamine, Carbon Dioxide (CO₂), Esters.

Special protective equipment and precautions for fire-fighters

Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

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6 ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid generation of dust and aerosols. Avoid breathing dust or spray mist.

Environmental precautions

Contain spill.

Methods and material for containment and cleaning up

Methods for containment

Cover with absorbent or contain. Collect and dispose.

Methods for cleaning up

Avoid dust formation. Use industrial vacuum cleaners approved for combustible dust and area electrical classification.

Precautions to prevent secondary hazards

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

7 HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid generation of dust and aerosols. Ensure adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wear suitable gloves and eye/face protection.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Regular cleaning equipment, work

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area and clothing is recommended. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep the container tightly closed in a dry and well-ventilated place. Protect from light. Keep/store only in the original container.

Incompatible materials

Keep away from heat, flames and sparks.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Appropriate engineering controls

Engineering controls

Transfer via enclosed lines. Formulate in enclosed or ventilated mixing vessels. Carefully handle the substance to minimize releases. Avoid generation of dust and aerosols.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection.

Individual protection measures, such as personal protective equipment

Eye / Face Protection

Wear safety glasses with side shields (or goggles).

Skin and Body Protection

Wear protective gloves and protective clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

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9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Crystalline Powder
Colour:	White
Odour:	Faint molasses odour
Water solubility:	Soluble
pH:	5 - 7

10 STABILITY AND REACTIVITY

Reactivity

Not expected.

Chemical Stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact: No.

Sensitivity to Static Discharge: No.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Very hygroscopic; protect from moisture. Keep away from heat, flames and sparks. May form combustible dust concentrations in air.

Incompatible Materials

Keep away from heat, flames and sparks.

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Hazardous decomposition products

Decomposes on heating. Decomposition products: Trimethylamine.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity - Product

Ingestion

Toxicity Not expected.

Sensitisation - Product

Not expected.

Aspiration hazard - Product

Not expected.

Component Information - Betaine Anhydrous

Oral

Oral LD50 (rat) 11179 mg/kg

Eye Irritation

Non-irritant.

Skin Irritation

Non-irritant.

Sensitisation

Non-irritant.

Mutagenic effects

Negative in Ames assay with and without metabolic activation up to 5000 µg/plate. Negative in chromosomal aberration using human lymphocytes. No increases in micronuclei were noted in the bone marrow of mice dosed up to 2 gm/kg by the oral route.

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Systemic Toxicity

Toxicity Groups of male and female rats were administered 0, 0.5, 0.75, 1.0, and 5.0% betaine in the diet for 90 days. Based on this study, it was concluded that betaine is nontoxic.

12 ECOLOGICAL INFORMATION

Ecotoxicity

Classification based on data available for ingredients.

Chemical Name	Toxicity to Algae	Toxicity to daphnia and other aquatic invertebrates
Betaine Anhydrous 107-43-7	EC50/72h/algae 1199 mg/l (Desmodesmus subspicatus)	48 hr daphnia EC50: 4335 mg/L

Persistence and degradability

Based on data available for ingredients.

Chemical Name	Biodegradation
Betaine Anhydrous 107-43-7	Readily biodegradable (88 % after 28 days)

Bioaccumulative potential

Chemical Name	Log Pow
Betaine Anhydrous	-3.1 (@20°C)

Mobility

Mobility in soil Soluble in water

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products

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Dispose of wastes in an approved waste disposal facility. Dispose of contents/ container to an approved landfill.

Contaminated packaging

Dispose of empty containers and wastes safely. Dispose of waste product or used containers according to local regulations.

14 TRANSPORT INFORMATION

Australia ADG

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

IATA

Not classified as dangerous in the meaning of sea and air transport regulations.

IMDG/IMO

Not classified as dangerous in the meaning of sea and air transport regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

None.

15 REGULATORY AND OTHER INFORMATION

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

National Regulations

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated.

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International Inventories

AICS: This product/preparation is in compliance with the Australian Inventory of Chemical Substances list.

AICS - Australian Inventory of Chemical Substances

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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