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 (02) 5566 0566
Address	C3/ 1-3 Rodborough Rd, Frenchs Forest, NSW, 2086, Australia

1.2 PRODUCTION IDENTIFICATION

Raw Material	Lactic Acid 90%
SKU	RMTR-0302D

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

Identified uses	Cosmetic Raw Materials
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

1.5 EMERGENCY CONTACTS - INSTITUTION CENTRE

Australia	Poison Information Centre 13 11 26

2 HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS classification Australia in accordance with Safe Work Australia	Skin corrosion, category 1; Eye damage, category 1 Serious eye damage/ Eye irritation, category 1

Labelling

Pictogram Code: GHS05

Signal Word:	Danger
Hazard Statement:	H314-Causes severe skin burns and eye damage H318-Causes serious eye damage
Precautionary Statement (Prevention)	P264 Wash skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.

	P260 Do not breathe dust/fume/gas/mist/vapours/spray.
Precautionary Statement (Response)	P310 Immediately call a POISON CENTER or doctor/physician. P363 Wash contaminated clothing before reuse. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P321 Specific treatment (see label). P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	P405 Store locked up. -
Disposal	P501 Dispose of contents/container in accordance with application regulations. -

Additional Information

3 COMPOSITION/ INFORMATION ON INGREDIENTS

INCI Name	CAS No	Composition Range %	Classification of Ingredient in accordance with Safe Work Australia
Lactic Acid	50-21-5, 79-33-4	≥ 90.0	Skin corrosion, Cat 1C Serious eye damage, Cat 1
Water	7732-18-5	≤ 12.0	Not classified

4 FIRST AID MEASURES

If inhaled	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.
In case of skin contact	Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.
In case of eye contact	If in eyes, hold eyelids apart and flush the eyes continuously with running water.Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.
Most important symptoms and effects, both acute and delayed (if relevant)	If breathing is difficult, give oxygen. Keep victim under observation. Symptoms may be delayed. Causes severe damage to eyes: burning feeling, redness, pain. Causes skin irritation: itching, redness.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.
First Aid Facilities:	Eyewash,safety shower and normal washroom facilities.
Other Information:	For advice in an emergency, contact a PoisonsInformation Centre or a doctor at once. (13 1126)

5 FIRE FIGHTING MEASURES

Suitable extinguishing media	Carbon dioxide, dry chemical, foam, water mist or water spray.
Not suitable extinguishing media	Do not use water jet. Do not use a solid water stream asit may scatter and spread fire.
Special hazards arising from the substance or mixture incompatibilities	This product will burn if exposed to fire. Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen. Decomposition Temperature: >200 °C

Specific and uses	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.
Further information	No further information available.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal.
Environmental precautions	Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. Small amounts: Wipe up with absorbent material (e.g. cloth, fleece)

7 HANDLING AND STORAGE

Precautions for safe handling

General protective measures	Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.
Measures to prevent Fire	No further information available.
Conditions for safe storage, including any incompatibilities	Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations. Store in a cool, dry, well-ventilated area away from sources of ignition, foodstuffs, clothing and incompatible materials such as oxidising agents. Keep containers closed when not in use, securely sealed and protected against physical damage. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Storage Temperatures: Keep at temperatures below 200 °C.
Specific and uses	Cosmetic preparations

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Controls (mixture)	No Exposure Limit Established

Exposure Controls

General Engineering Measures	This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirement

General Industrial Hygiene Practices	Handle in accordance with good industrial hygiene and safety practice. Workers must be trained in the proper use and handling of this product as required under applicable regulations. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.
General Hand Protections Measurements	Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Wear gloves of impervious material such as butyl rubber. Glove thickness: 0.5 mm. Breakthrough time: >8h. Unsuitable Materials: natural rubber, nitrile rubber, fluorinated rubber, Pvc. Reference should be made to AS/NZS 2161.1: Occupational protective gloves- Selection, use and maintenance.
General Eye Protection Measures	Safety glasses with full face shield should be used. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.
Biological Monitoring:	No biological limits allocated.
Respiratory protection:	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulationsfor further information concerning respiratory protective requirements
	Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Body protection:	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9 PHYSICAL AND CHEMICAL PROPERTIES

Test Item	Comments	Unit of measurement	Specification (Lower)	Specification (Upper)
Density	@20°C/68°F	-	1.20	1.21
Colour	fresh solution	Hazen	0.00	35.00
Colour after heating	@200°C/392°F, 2h	Hazen	0.00	50.00
Odour	Nearly odourless	-	Complies	Complies
Taste	Mild acid	-	Complies	Complies
Positive test for Lactate		-	Complies	Complies
Total Acidity (as Lactic Acid)	-	%	90.00	-
Stereochemical Purity	-	%	97.00	-
Heavy Metals (Pb)	-	ppm	0.00	5.00
Iron	-	ppm	0.00	10.00
Calcium	-	ppm	0.00	10.00
Chloride	-	ppm	0.00	10.00
Sulphate	-	ppm	0.00	10.00
Sulphated Ash	-	%	0.00	0.05

Test Item	Comments	Unit of measurement	Specification (Lower)	Specification (Upper)
Cyanide	-	ppm	0.00	1.00
Lead	-	ppm	0.00	0.50
Arsenic	-	ppm	0.00	1.00
Mercury	-	ppm	0.00	1.00
Sugars / Reducing substances	-	-	Complies	Complies
Citric, oxalic, tartaric and phosphoric acids	-	-	Complies	Complies
Methanol and Methyl Esters	-	-	Complies	Complies
Volatile Fatty Acids	-	-	Complies	Complies
Readily Carbonizable Substances	-	-	Complies	Complies
Ether - insoluble substances	-	-	Complies	Complies
Appearance	Transparent, syrupy and hygroscopic liquid. Miscible with water and with alcohol.	-	Complies	Complies

10 STABILITY AND REACTIVITY

Reactivity	No further information available.
Chemical Stability	Stable under normal conditions of storage and handling.
Possibility of Hazardous	Reacts with incompatible materials.
Conditions to Avoid	Heat, open flames and other sources of ignition. Temperatures above 200 °C.
Incompatible Materials	Strong oxidising agents.
Hazardous decomposition products:	Thermal decomposition may result in the release of toxic and/or irritating fumesincluding: carbon monoxide and carbon dioxide.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral:	LD50(rat, female): 3543 mg/kg LD50(rat, male): 4936 mg/kg L-Lactic acid
Acute Toxicity - Dermal:	LD50(rabbit): >2000 mg/kg L-Lactic acid
Acute Toxicity - Inhalation:	L-Lactic acid LC50(rat): >7.94 mg/l/4h
Ingestion:	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Inhalation:	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Skin:	L-Lactic acid Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. Skin Corrosion/Irritation: corrosive (rabbit) OECD 404, in vivo,solution (88%)
Eye:	CEET, Ex vivo, solution (88%) L-Lactic acid Causes serious eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness. Serious eye damage/irritation: severe eye irritation

Respiratory sensitisation:	Not expected to be a respiratory sensitiser.
Skin Sensitisation:	Not expected to be a skin sensitiser.
Germ cell mutagenicity:	Not considered to be a mutagenic hazard.
Carcinogenicity:	Not considered to be a carcinogenic hazard.
Reproductive toxicity:	Not considered to be toxic to reproduction. Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.
STOT - single exposure:	Not expected to cause toxicity to a specific target organ.
STOT - repeated exposure:	Not expected to cause toxicity to a specific target organ.
Aspiration hazard:	Not expected to be an aspiration hazard.

12 ECOLOGICAL INFORMATION

Persistence and degradability:	Readily biodegradable.
Bioaccumulative potential:	logPow: -0.62 Does not bioaccumulate. L-Lactic acid
Environmental Protection:	Do not discharge this material into waterways, drains and sewers.
Acute Toxicity - Fish:	LC50 (Danio rerio): 320 mg/L/96h L-Lactic acid LC50 (Oncorhynchus mykiss): 130mg/l/96h
Acute Toxicity - Daphnia:	L-Lactic acid EC50 (Daphnia magna): 130mg/l/48h EC50 (Daphnia magna): 250mg/l/48h
Acute Toxicity - Algae:	EC50 (Pseudokirchnerella supcapitata): >2.8 g/L/72h EC50 (Pseudokirchnerella subcapitata): 3.5 g/L/70h L-Lactic acid
Acute Toxicity - Other Organisms:	LC50 (micro-organisms): >100 mg/L/3h L-Lactic acid
Hazardousto the Ozone Layer:	This product is not expected to deplete the ozone layer.

13 DISPOSAL CONSIDERATIONS

Disposal considerations:	The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations. To minimise personal exposure, refer to Section 8 - Exposure controls and personal protection.

14 TRANSPORT INFORMATION

Land transport - DOT	No further information available.
Sea transport - IMDG	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
Air transport - IATA/ICAO	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
Transport Information:	Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
ADG U.N. Number:	None Allocated.
ADG Proper Shipping Name:	None Allocated.
ADG Transport Hazard Class:	None Allocated.
ADG Packing Group:	None Allocated.

IATA UN Number:	None Allocated.
IATA Proper Shipping Name:	Not dangerous for conveyance under IATA code
IATA Transport Hazard Class:	None Allocated.
IATA Packing Group:	None Allocated.
IMDG UN Number:	None Allocated.
IMDG Proper Shipping Name:	Not dangerous for conveyance under IMO/IMDG code
IMDG Transport Hazard Class:	None Allocated.
IMDG Packing Group:	None Allocated.
IMDG Marine pollutant:	No.
Transport in Bulk:	Not available.

15 REGULATORY AND OTHER INFORMATION

SUSMP	Schedules	AICIS
Not scheduled	-	Listed

Legend	AICIS Listed: All CAS declared ingredients are on the inventory AICIS Complies: One or more of the CAS listed ingredients are exempt from listing AICIS Not listed: One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing SUSMP Schedule: Please note that some schedules have exemptions according to the use of the material. Please follow relevant regulations/ requirements.

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.

Issue Date	15-May-2023
Revision Date	15-May-2023
Version	01