Safety Data Sheet

Date of Issue: 20.07.2020 Date of Expiry: 20.07.2025

1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name:	ECP Limited
Address:	PO Box 34125, Birkenhead, Auckland 0746
Telephone:	+64 9 480 4386
Facsimile:	+64 9 480 4385
Emergency phone number:	0800 243 622 (24 hours)

Product Name	L (+) Tartaric Acid
Product Code	52001, 6195, TP010
EC No	201-766-0
CAS No	87-69-4
HSNO approval number	HSR003472

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

2: Hazards identification

New Zealand hazards classification (source https://epa.govt.nz):
9.1C (All), 9.1C (C)

2.1 GHS Classification
Skin irritation (Category A), H315
Eye irritation (Category A), H319

2.2 GHS Label elements, including precautionary statements
Hazard Pictogram

Signal word **Warning**

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation

Precautionary statement(s)

Prevention

P264	Wash skin thoroughly after handling.
P280	Wear protective gloves.

Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

3: Composition/information on ingredients

Substance/mixture: substance

3.1 Substances

Synonyms	: (2R,3R)-(+)-Tartaric acid L-Threaric acid
Formula	: $C_4H_6O_6$
Molecular weight	: 150.09 g/mol
CAS No	: 87-69-4

Hazardous components:

Component	Classification	Concentration
Tartaric Acid		
	6.3 A; 6.4 A; H315, H319	<=100%

4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7: Handling and storage

7.1 Precautions for safe handling
Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

8: Exposure controls/personal protection

8.1 Control parameters
No exposure limits have been set for this substance.

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: Solid
Molecular mass	: 150.09 g/mol
Colour	: White crystalline.
Odour	: odourless.
Odour threshold	: No data available
pH	: 1 - 2 at 150 g/l at 25 °C
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 170 - 172
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 150 °C
Auto-ignition temperature	: 425 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 5.18
Relative density	: No data available
Density	: 1.76 g/cm³
Solubility	: Water: 150 g/l at 20 °C - completely soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No additional information available

10.4. Conditions to avoid
Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
No additional information available Carbon oxides

11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity
LC50 Oral - Rat - > 2,000 mg/kg
(OECD Test Guideline 423)
LC50 Dermal - Rat - > 2,000 mg/kg
(OECD Test Guideline 402)
LD50 Intravenous - Mouse - 485 mg/kg
Remarks: Behavioural: Convulsions or effect on seizure threshold. Blood: Haemorrhage.

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - In vitro study
Result: Risk of serious damage to eyes.
(OECD Test Guideline 437)

Respiratory or skin sensitisation
in vivo assay
Result: Does not cause skin sensitisation.
(OECD Test Guideline 429)

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

Additional Information
RTECS: WW7875000

12: Ecological information

12.1 Toxicity
Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - 93.31 mg/l - 48 h
(OECD Test Guideline 202)
Toxicity to algae

EC50 - Algae - 51.4 mg/l - 72 h
(OECD Test Guideline 201)

12.2 Persistence and degradability
Biodegradability aerobic - Exposure time 28 d
Result: 85 % - Readily biodegradable.
(OECD Test Guideline 306)

12.3 Other adverse effects
Harmful to aquatic life.

13: Disposal considerations

13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14: Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	**UN Number**	-	-	-
14.2	**UN Proper Shipping name**	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3	**Transport Hazard Class**	-	-	-
14.4	**Packaging group**	-	-	-
14.5	**Environmental Hazards**	No	No	No
14.6	**Special precautions for user**	none		

15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information
HSNO Approval Code: HSR003472
HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006
Tracking Required: not required
Approved Handler Cert.: not required

16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical

described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

****END*******END*******END*******END*******END****