

Material Safety Data Sheet

Version: 01

Revision Date: 1-6-2025

Section 1. Product Information and Company Identification				
Product name	L (+)-Tartaric acid			
Mol. formula	C4H6O6	CAS No.	87-69-4	
Mol.wt	150.09 g/mol			
manufacturer name	Pioneers for laboratory chemicals			
Brand name	Piochem			
Address	Area 540, Industrial Zone 6th October city Giza, Egypt.			
Website	www.piochem.com			
E-mail	info@piochem.com			
Phone number	0 12 05700001			

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Irritant Χi R41

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Danger company to make

Signal word

Hazard statement(s)

Causes serious eye damage. H318

Precautionary statement(s)

P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove



R/D-SOP-001-F02 Page 1 of 7 Issue Date: 03/11/2024 Effective Date: 03/12/2024 Review Date: 03/12/2027	Issue No. 01
---------------------------------------------------------------------------------------------------------------	--------------



contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard

Statements

none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : (2R,3R)-(+)-Tartaric acid

L-Threaric acid

Formula : C4H6O6

Molecular weight : 150,09 g/mol
CAS-No. : 87-69-4
EC-No. : 201-766-0

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration

(+)-Tartaric acid

CAS-No. 87-69-4 Eye Dam. 1; H318 <= 100 %

EC-No. 201-766-0

Hazardous ingredients according to Directive 1999/45/EC

Component Classification Concentration

(+)-Tartaric acid

CAS-No. 87-69-4 Xi, R41 <= 100 %

EC-No. 201-766-0

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16 **SECTION 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.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available



R/D-SOP-001-F02 | Page 2 of 7 | Issue Date: 03/11/2024 | Effective Date: 03/12/2024 | Review Date: 03/12/2027 | Issue No. 01



SECTION 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.

Further information 5.4

No data available

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures 6.1

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

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.

6.4 Reference to other sections

For disposal see section 13.

SECTION 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.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

Components with workplace control parameters

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.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).





Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a`) Appearance	Form: crystalline
u	, rippodiarioo	i oiiii. oi yotaiiiile

Colour: white

b) Odour No data available c) Odour Threshold No data available

1,0 - 2 at 150 g/l at 25 °C d) pH

Melting point/freezing

point

Melting point/range: 170 - 172 °C - lit.

Initial boiling point and f)

boiling range

No data available

g) Flash point 150 °C - closed cup Evaporation rate No data available

Flammability (solid, gas) No data available

Upper/lower j) flammability or No data available

explosive limits k) Vapour pressure

No data available 5,18 - (Air = 1.0)Vapour density m) Relative density No data available

150 g/l at 20 °C - completely soluble n) Water solubility

Partition coefficient: n-

octanol/water

log Pow: -1,909 at 20 °C

p) Auto-ignition

temperature

No data available

Decomposition

No data available

temperature



R/D-SOP-001-F02 Page 4 of 7 Issue Date: 03/11/2024 Effective Date:03/12/2024 Review Date: 03/12/2027 Issue No. 01



r) Viscosity No data available
 s) Explosive properties No data available
 t) Oxidizing properties No data available

9.2 Other safety information

Relative vapour density 5,18 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Bases, Oxidizing agents, Reducing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 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: Behavioral:Convulsions or effect on seizure threshold. Blood: Hemorrhage.

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)

Germ cell mutagenicity

No data available

Carcinogenicity



R/D-SOP-001-F02 Page 5 of 7 Issue Date: 03/11/2024 Effective Date: 03/12/2024 Review Date: 03/12/2027 Issue No. 01



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.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: WW7875000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

No data available

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 93,31 mg/l - 48 h

other aquatic

(OECD Test Guideline 202)

invertebrates

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 Bioaccumulative potential

No bioaccumulation is to be expected (log Pow <= 4).

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Harmful to aquatic life.

No data available

SECTION 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.



R/D-SOP-001-F02 Page 6 of 7 Issue Date: 03/11/2024 Effective Date: 03/12/2024 Review Date: 03/12/2027 Issue No. 01



SECTION 14: Transport information

14.1 UN number

ADR/RID: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

14.4 Packaging group

ADR/RID: -

14.5 Environmental hazards IMDG: - IATA: -

IMDG: -

IATA: -

IATA: -

ADR/RID: no

IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Eye Dam. Serious eye damage

H318 Causes serious eye damage.

Full text of R-phrases referred to under sections 2 and 3

Xi Irritant

R41 Risk of serious damage to eyes.



R/D-SOP-001-F02 | Page 7 of 7 | Issue Date: 03/11/2024 | Effective Date: 03/12/2024 | Review Date: 03/12/2027 | Issue No. 01