

Safety Data Sheet

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	L(+)-Tartaric Acid, Natural
Product Number	0304400
CAS-No.	87-69-4

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992 –USA
Telephone	845-496-6065
Fax	845-496-6248
Emergency Telephone Number	1-800-535-5053 International - 1-352-323-3500 collect

Section 2: HAZARD(s) IDENTIFICATION

2.1 Classification of substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)	Eye damage / Irritation (Category 2A) Skin Corrosion / Irritation (Category 2) Harmful if inhaled (Category 1)
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2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Danger

Hazard Statement(s)

H315	Causes skin irritation
H318	Causes serious eye damage
H372	Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Precautionary Statement(s)

P260	Avoid breathing dust/fume/gas/mist/vapor/spray
P264	Wash skin thoroughly after handling.

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P270	Do not eat, drink or smoke when using this product.
P280	Wear eye protection/ face protection/gloves.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
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.
P403 +P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/ container to an approved waste disposal plant

2.3 HNOC (Hazards not otherwise classified or not covered by GHS)

None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Chemical characterization	Natural Product
Synonyms	2,3-dihydroxybutanedioic Acid
Formula	C ₄ H ₆ O ₆
Molecular Weight	150.09 g/mol
CAS-No	133-37-9
EC-No.	205-105-7

Hazardous Components

Component	Classification	Concentration
Tartaric Acid	Skin Irrit. 2; Eye Damage (1), STOT RE (1); H315, H318, H372	<= 100%

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. Move out of dangerous area.
Inhalation	Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 mins as a precaution. Remove contact lenses if present and easy to do. Continue rinsing. Consult a physician.
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.

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|-----|--|-----------------------------------|
| 4.2 | Most important symptoms and effects both acute and delayed | See section 2.2 and or section 11 |
| 4.3 | Indication of any immediate medical attention and special treatment needed. | No data available |

Section 5: FIREFIGHTING MEASURES

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| 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 fire fighters | Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions |
| 5.4 | Further information | Use water spray to cool unopened containers. |

Section 6: ACCIDENTAL RELEASE MEASURES

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| 6.1 | Personal precautions, protective equipment and emergency procedures | Use personal protective equipment. Avoid dust formation. Avoid breathing vapors. Mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. |
| 6.2 | Environment precautions | Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system. |
| 6.3 | Methods and materials for containment and clean up | Sweep up with broom and shovel. Avoid creating dust Place in a suitable, closed container for disposal. |
| 6.4 | Specific end use(s) | Apart from the uses mentioned in section 1.2, no other specific uses are stipulated. |

Section 7: HANDLING AND STORAGE

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| 7.1 | Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide adequate ventilation at places where dust is formed. |
| 7.2 | Conditions for Safe storage | Keep container tightly closed in a dry and well-ventilated place. |
| 7.3 | Specific End use(s) | Flavorings |

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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|-----|---|---|
| 8.1 | Control parameters (Components with workplace control parameters): | Contains no substance with workplace control parameters |
| 8.2 | Exposure Controls
Appropriate Engineering Controls | Handle in accordance with good industrial hygiene and safety practices. Mechanical exhaust required, Safety Shower and Eye Bath |

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Personal protective equipment

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.

Eye/face protection	Wear appropriate tightly fitting safety goggles. NIOSH tested and approved.
Skin protection	Wear chemically resistant, Nitrile rubber gloves, 11 mm. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.
Body protection	Impervious clothing protecting against chemicals, made of flame retardant antistatic material should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full face particle respirator type N100 (US) or type P3 (EN143) respirator cartridges as a back up 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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a	Appearance	White crystalline powder
b	Odor	Odorless
c	Odor Threshold	No data available
d	pH	2.5-3.5 at 20°C
e	Melting Point /Freezing Point	199-212°C
f	Boiling Point	249°C - lit
g	Flash Point	110°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	No data available
k	Vapor pressure	13 hPa at 132°C
l	Vapor density	4.22 (Air=1.0)
m	Relative density at 20°C	1.320 g/cm ³
n	Solubility	Very soluble in ethanol; soluble in oils and glycerol; moderately soluble in hot water; insoluble in cold water.
o	Partition coefficient: n-octanol/water	log Pow: 1.88
p	Auto-ignition Temp.	425 °C
q	Decomposition Temp,	No data available

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

9.2 Other Safety Information

No data available

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	Heat, Flames and sparks
10.5	Incompatible materials	Strong oxidizing agents, Strong bases, Strong reducing agents
10.6	Hazardous decomposition products	No data available
10.7	Further Information	No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral-Rabbit 5,000 mg/kg

LD50-Dermal- Rabbit >2,000 mg/kg

Skin corrosion/irritation Rabbit – Mild skin irritation – 24 hr (Draize Test)

Serious eye damage/eye irritation Rabbit – Corrosive to eyes (Draize Test)

Respiratory or skin sensitization Does not cause skin sensitisation.

Germ Cell mutagenicity No data available

Carcinogenicity

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

ACGIH No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available

Teratogenicity No data available

Specific target organ toxicity-single exposure (GHS) Inhalation – May cause respiratory irritation - Lungs

Specific target organ toxicity-repeated exposures (GHS) No data available

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Aspiration Hazards	No data available
Potential Health effects	
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Synergistic effect	No data available
RTECS:	DG0875000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	
To Fish	LC50-Gambusia affinis (Mosquito fish) – 180 mg/l – 96 h
To Algae	EC50 – Growth inhibition – Scenedesmus quadricauda (Green Algae) >10 mg/l
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	Bioaccumulation: Leuciscus idus (Golden orfe) 3 d – 50ug/l Bioconcentration factor (BCF) 5.3
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
12.6 Other adverse effects	No data available

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods	
Product:	According to local regulations
Packaging	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

Section 15: REGULATORY INFORMATION

Reach No.	A registration number is not available for this substance as its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute health hazard

Massachusetts Right to Know components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know components

Tartaric Acid CAS# 133-37-9 Rev. Date: 3/1/2007

New Jersey Right to Know components

Tartaric Acid CAS# 133-37-9 Rev. Date: 3/1/2007

California Prop. 65 components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard 3
Chronic Health Hazard
Flammability 1
Reactive Hazard 0

Further Information

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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