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MATERIAL SAFETY DATA SHEET (MSDS)**DL - TARTARIC ACID LR (SYNTHETIC)****1 - Chemical Product**

MSDS Name:DL-Tartaric Acid
Synonym:DL-Dihydroxysuccinic Aci

Cas NO:133-37-9

Product Coad: T0201705000

Molecular Formula: C₄H₆O₆
Molecular Weight: 150.09

2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
133-37-9	DL-Tartaric Acid	99.5%	205-105-7

3 - HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Irritating to eyes, respiratory system and skin.The toxicological properties of this material have not been fully investigated.Potential Health Effects
Eye:May cause eye irritation. Causes redness and pain. The toxicological properties of this material have not been fully investigated.
Skin:May cause skin irritation. The toxicological properties of this material have not been fully investigated.Ingestion:May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.
Inhalation:Dust is irritating to the respiratory tract. The toxicological properties of this substance have not been fully investigated.
Chronic:No information found.

4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.
Skin:Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
Ingestion:If victim is conscious and alert, give 2-4 cupfuls of milk or water.
Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur.
Inhalation:Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
Notes to Physician:

5 - FIRE FIGHTING MEASURES

General Information:As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.
Extinguishing Media:Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

7 - HANDLING and STORAGE

Handling:Wash thoroughly after handling. Use only in a well-ventilated area.
Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
Storage:Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:
Use adequate ventilation to keep airborne concentrations low.
Exposure Limits CAS# 133-37-9: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as

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described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:Wear appropriate protective gloves to prevent skin exposure.

Clothing:Wear appropriate protective clothing to prevent skin exposure.

Respirators:Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: white

Odor: Odorless

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 205 - 207 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: soluble in water

Specific Gravity/Density:

Molecular Formula: C₄H₆O₆

Molecular Weight: 150.09

10 - STABILITY AND REACTIVITY

Chemical Stability:Stable under normal temperatures and pressures.

Conditions to Avoid:Incompatible materials.

Incompatibilities with Other Materials:Oxidizing agents.

Hazardous Decomposition Products:Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 133-37-9 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

DL-Tartaric Acid - Not listed by ACGIH, IARC, or NTP.

12 - ECOLOGICAL INFORMATION**Section 13 - DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with federal, state, and local regulations.

14 - TRANSPORT INFORMATION

Not regulated

15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

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Hazard Symbols: XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28A After contact with skin, wash immediately with plenty of water.

S 37 Wear suitable gloves.

S 37/39 Wear suitable gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 133-37-9: 0

Canada

CAS# 133-37-9 is listed on Canada's DSL List.

CAS# 133-37-9 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 133-37-9 is listed on the TSCA inventory.

16. Other Information

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** 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.

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