

MATERIAL SAFETY DATA SHEET

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Page: 1 of 4

I. PRODUCT IDENTIFICATION

Trade Name: L(+)-Tartaric Acid

Chemical and common name: Tartaric Acid; 2,3-Dihydroxy Butanedioic Acid;
L(+)-Dihydrosuccinic Acid

CAS Number: [87-69-4]

Appearance and odor: White to off-white crystal granules; odorless

II. HAZARDS IDENTIFICATION

Emergency Overview

Irritating to eyes, respiratory system and skin.

Potential Health Effects

Eye: Causes eye irritation. Causes redness and pain.

Skin: Causes skin irritation. Causes redness and pain.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: Dust is irritating to the respiratory tract.

Chronic: Not available

III. FIRST AID

EYES: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids until no evidence of chemical remains. If irritation develops, get medical attention immediately.

SKIN: Get medical attention if irritation develops or persists. Flush skin with plenty of soap and water.

INGESTION: DO NOT induce vomiting. 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 to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if cough or other symptoms appear.

IV. 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. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media: In case of fire use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: 425° C (797° F)

Flash Point: 210° C (410° F)

NFPA Rating: health-0; flammability-1; reactivity-0

Explosion Limits, Lower: Not available

Explosion Limits, Upper: Not available

III. ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up or absorb material, then place into suitable clean, dry, closed container for disposal. Avoid generating dusty conditions.

IV. HANDLING AND STORAGE

Handling: Avoid breathing dust, vapor, mist or gas. Avoid contact with eyes and skin.

Storing: Store in a cool, dry place. Store in tightly closed container.

V. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as 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 respiratory regulations found in 29 CFR:1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

VI. PHYSICAL AND CHEMICAL PROPERTIES.

Physical state: Crystal
Color: White
Odor: Odorless
Boiling Point: Not available
Freezing/Melting Point: 171 - 174° C
Autoignition Temperature: 425° C (797° F)
Flash Point: 210° C (410° F)
Vapor pressure: < 0.1 mbar @ 20° C
pH: Not available
Viscosity: Not available
Explosion Limits, lower: Not available
Explosion Limits, upper: Not available
Decomposition Temperature: > 220° C
Solubility: 1366 G/L WATER (22fC)
Specific Gravity/Density: Not available
Molecular Formula: HO₂CCH(OH)CH(OH)CO₂H
Molecular Weight: 150.09

VII. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials

Incompatibilities with Other Materials: Oxidizing agents, reducing agents, bases

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

VIII. TOXICOLOGY INFORMATION

RTECS#:

CAS# 87-69-4: WW7875000

LD50/LC50:

Not available

Carcinogenicity:

L(+)-Tartaric Acid - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

See actual entry in RTECS for complete information

IX. ECOLOGICAL INFORMATION

No information available

X. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

XI. TRANSPORTATION INFORMATION

US DOT

No information available

IMO

Not regulated as a hazardous material

RID/ADR

Not regulated as a hazardous material

Canadian TDG

No information available

XII. REGULATORY INFORMATION

U.S. FEDERAL:

TSCA – CAS# 87-69-4 is listed on the TSCA inventory.

EUROPEAN/INTERNATIONAL REGULATIONS:

European Labeling in Accordance with EC Directives

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 advise.

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

WGK (Water Danger/Protection):

CAS# 87-69-4: 0

CANADA

CAS# 87-69-4 is listed on Canada's DSL/NDSL List

CAS# 87-69-4 is not listed on Canada's Ingredient Disclosure List.

XIV: OTHER INFORMATION

Additional Information:

No additional information available