



#### 1 - Product

Product Name L(+)-MANDELIC ACID

Product Number 63462

#### 2 - Hazards Identification

**SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT**

Not hazardous according to Directive 67/548/EEC.

#### 3 - Composition/Information on Ingredients

Product Name CAS # EC no Annex I Index Number

(S)-(+)-MANDELIC ACID 17199-29-0 241-240-8 None

Formula C<sub>8</sub>H<sub>8</sub>O<sub>3</sub>

Molecular Weight 152.15 AMU

#### 4 - First Aid Measures

**AFTER INHALATION**

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

**AFTER SKIN CONTACT**

In case of contact, immediately wash skin with soap and copious amounts of water.

**AFTER EYE CONTACT**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**AFTER INGESTION**

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### 5 - Fire Fighting Measures

**EXTINGUISHING MEDIA**

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**SPECIAL RISKS**

Specific Hazard(s): Emits toxic fumes under fire conditions. **SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS** Wear self-contained breathing apparatus and protective clothing

to prevent contact with skin and eyes.

**6 - Accidental Release Measures PROCEDURE(S) OF PERSONAL PRECAUTION(S)**

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

**METHODS FOR CLEANING UP**

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

**7 - Handling and Storage**

**HANDLING**

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**STORAGE**

Conditions of Storage: Keep tightly closed. Store in a cool dry place.

Unsuitable: Store away from heat and direct sunlight

**SPECIAL REQUIREMENTS:** Light sensitive.

**8 - Exposure Controls / Personal Protection**

**ENGINEERING CONTROLS**

Safety shower and eye bath. Mechanical exhaust required.

**GENERAL HYGIENE MEASURES**

Wash thoroughly after handling.

**PERSONAL PROTECTIVE EQUIPMENT**

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Hand Protection: Protective gloves. Eye

Protection: Chemical safety goggles.

**9 - Physical and Chemical Properties**

Appearance Physical State: Solid

Color: Colorless

Form: Crystals

Property Value At Temperature or Pressure

pH N/A

BP/BP Range N/A MP/MP

Range 130 °C Flash Point

N/A Flammability N/A

Autoignition Temp N/A

Oxidizing Properties N/A

Explosive Properties N/A

Explosion Limits N/A

Vapor Pressure N/A  
SG/Density N/A  
Partition Coefficient N/A  
Viscosity N/A  
Vapor Density N/A  
Saturated Vapor Conc. N/A  
Evaporation Rate N/A  
Bulk Density N/A  
Decomposition Temp. N/A  
Solvent Content N/A  
Water Content N/A  
Surface Tension N/A  
Conductivity N/A  
Miscellaneous Data N/A  
Solubility N/A

#### 10 - Stability and Reactivity

##### STABILITY

Conditions of Instability: May discolor on exposure to light.

Materials to Avoid: Strong bases, Strong oxidizing agents, Strong reducing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS** Hazardous

Decomposition Products: Carbon monoxide, Carbon dioxide.

**HAZARDOUS POLYMERIZATION**

Hazardous Polymerization: Will not occur

#### 11 - Toxicological Information SIGNS AND SYMPTOMS OF EXPOSURE

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

##### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion: May be harmful if swallowed.

#### 12 - Ecological Information

No data available.

#### 13 - Disposal Considerations

##### SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

#### 14 - Transport Information

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

#### 15 - Regulatory Information

**CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES**

**S-PHRASES: 22-24/25**

Do not breathe dust. Avoid contact with skin and eyes. Not hazardous according to Directive 67/548/EEC.

#### 16 - Other Information

**WARRANTY**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sparchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. License granted to make unlimited paper copies for internal use only.

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