



THE POWER OF THREE³

PHARMCO-AAPER

AND COMMERCIAL ALCOHOLS

Product Information (203) 740-3471

Emergency Assistance CHEMTREC 1-800-424-9300

1 Identification of substance:

◆ **Product name:** D-(-)-Tartaric acid

◆ **Manufacturer/Supplier:**

PHARMCO-AAPER.

58 Vale Road

Brookfield, Connecticut 06804, USA

Phone (203) 740-3471

Fax (203) 740-3481

1101 Isaac Shelby Drive

Shelbyville, KY 40065

Phone (502) 633-0650

Fax (502) 633-0685

Emergency Contact:

CHEMTREC 1-800-424-9300

◆ **Information Department:** Health, Safety and Environmental Department

◆ **Emergency information:**

During normal hours the Health, Safety and Environmental Department. After normal hours call Chemtrec at (800) 424-9300.

• 2 Composition/Data on components:

◆ **Chemical characterization:**

Description: (CAS#)

D-(-)-Tartaric acid (CAS# 147-71-7); 100%

◆ **Identification number(s):**

◆ **EINECS Number:** 205-695-6

• 3 Hazards identification

◆ **Hazard description:** · Not applicable

◆ **Information pertaining to particular dangers for man and environment**

Not applicable

◆ **Classification system**

◆ **HMIS ratings (scale 0-4)**

4 First aid measures

◆ **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

◆ **After skin contact**

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

◆ **After eye contact**

Rinse opened eye for several minutes under running water. Then consult a doctor.

◆ **After swallowing** Seek medical treatment.

• 5 Fire fighting measures

◆ **Suitable extinguishing agents**

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

◆ **Special hazards caused by the material, its products of combustion or resulting gases:**

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

◆ **Protective equipment:**

Wear self-contained respirator.

Wear fully protective impervious suit.

• **6 Accidental release measures**

◆ **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

◆ **Measures for environmental protection:**

Do not allow material to be released to the environment without proper governmental permits.

◆ **Measures for cleaning/collecting:** Pick up mechanically.

◆ **Additional information:**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

• **7 Handling and storage**

◆ **Handling**◆ **Information for safe handling:**

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

No special precautions are necessary if used correctly.

◆ **Information about protection against explosions and fires:**

No special measures required.

◆ **Storage**

◆ **Requirements to be met by storerooms and receptacles:**

No special requirements.

◆ **Information about storage in one common storage facility:**

Do not store together with strongly basic or oxidizing materials.

Store away from reducing agents.

◆ **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

• **8 Exposure controls and personal protection**

◆ **Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average

face velocity of at least 100 feet per minute.

◆ **Components with limit values that require monitoring at the workplace:**

Not required.

◆ **Additional information:** No data

◆ **Personal protective equipment**

◆ **General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

◆ **Breathing equipment:**

Use suitable respirator when high concentrations are present.

◆ **Protection of hands:** Impervious gloves

◆ **Eye protection:** Safety glasses

◆ **Body protection:** Protective work clothing.

• **9 Physical and chemical properties:**

◆ **General Information**

◆ **Form:** Crystalline

◆ **Color:** White

- ◆ **Odor:** Odorless
- ◆ **Value/Range Unit Method**
- ◆ **Change in condition**
- ◆ **Melting point/Melting range:** 168-170 ° C
- ◆ **Boiling point/Boiling range:** Not determined
- ◆ **Sublimation temperature / start:** Not determined
- ◆ **Flash point:** Not applicable
- ◆ **Flammability (solid, gaseous)** Product is not flammable.
- ◆ **Ignition temperature:** Not determined
- ◆ **Decomposition temperature:** Not determined
- ◆ **Danger of explosion:**
Product does not present an explosion hazard.
- ◆ **Explosion limits:**
- ◆ **Lower:** Not determined
- ◆ **Upper:** Not determined
- ◆ **Vapor pressure:** Not determined
- ◆ **Density:** at 20 ° C 1.7598 g/cm³
- ◆ **Solubility in / Miscibility with**
- ◆ **Water:** Soluble
- ◆ **Alcohols:** Soluble
- ◆ **Organic solvents:** Soluble in ether.
Soluble in glycerol.

• **10 Stability and reactivity**

- ◆ **Thermal decomposition / conditions to be avoided:**
Decomposition will not occur if used and stored according to specifications.
- ◆ **Materials to be avoided:**
Oxidizing agents
Bases
Reducing agents

- ◆ **Dangerous reactions** No dangerous reactions known
- ◆ **Dangerous products of decomposition:** Carbon monoxide and carbon dioxide

• **11 Toxicological information**

- ◆ **Acute toxicity:**
- ◆ **Primary irritant effect:**
- ◆ **on the skin:** May cause irritation
- ◆ **on the eye:** May cause irritation
- ◆ **Sensitization:** No sensitizing effects known.
- ◆ **Subacute to chronic toxicity:**
D-(-)-Tartaric acid is the levorotatory form of the detro configuration and is termed the "unnatural" isomer because it rarely occurs in nature or used in commercial products. Other than potential irritation, it is considered non-toxic. No other information on illness or injury from exposure to this product is available.
- ◆ **Additional toxicological information:**
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

• **12 Ecological information:**

- ◆ **General notes:**
Do not allow material to be released to the environment without proper governmental permits.

• **13 Disposal considerations**

- ◆ **Product:**
- ◆ **Recommendation**
Consult state, local or national regulations to ensure proper disposal.

◆ **Uncleaned packagings:**

◆ **Recommendation:**

Disposal must be made according to official regulations.

◆ **Recommended cleansing agent:** Water, if necessary with cleansing agents

14 Transport information

Not a hazardous material for transportation.

◆ **DOT regulations:**

◆ **Hazard class:** None

◆ **Land transport ADR/RID (cross-border)**

◆ **ADR/RID class:** None

◆ **Maritime transport IMDG:**

◆ **IMDG Class:** None

◆ **Air transport ICAO-TI and IATA-DGR:**

◆ **ICAO/IATA Class:** None

◆ **Transport/Additional information:**

Not dangerous according to the above specifications.

• **15 Regulations**

◆ **Product related hazard informations:**

Observe the general safety regulations when handling chemicals

◆ **Safety phrases:**

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

37 Wear suitable gloves.

◆ **National regulations**

All components of this product are listed in the U.S. Environmental Protection Agency Toxic

Substances Control Act Chemical substance Inventory.

◆ **Information about limitation of use:**

For use only by technically qualified individuals.

◆ **Other regulations, limitations and prohibitive regulations**

Although this chemical may sometimes be used as a food or drug or cosmetic, our products are not approved or suitable for such use or for human consumption.

• **16 Other information:**

The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.