

Revision Date: 16.05.2018

# SAFETY DATA SHEET

# 1. Identification

Product identifier: Tartaric Acid

Other means of identification

**Synonyms:** L-(+)-Tartaric Acid, d-Tartaric Acid **Product No.:** 4105, 4104, 2314, 2312, 2307, 0386

Recommended use and restriction on use

Recommended use: Not determined. Restrictions on use: Not determined.

Details of the supplier of the safety data sheet

Avantor Performance Materials, LLC.

3477 Corporate Parkway Center Valley, PA 18034

Telephone:

Customer Service: 855-282-6867

Fax: 610-573-2610

Contact Person: Environmental Health & Safety E-mail: info@avantormaterials.com

**Emergency telephone number:** 

CHEMTREC: 1-800-424-9300 within US and Canada

# 2. Hazard(s) identification

#### **Hazard Classification**

#### **Health Hazards**

Serious Eye Damage/Eye Irritation Category 1

#### **Unknown toxicity - Health**

Acute toxicity, oral 100 %
Acute toxicity, dermal 100 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust 100 %

or mist

# **Unknown toxicity - Environment**

Acute hazards to the aquatic 100 %

environment

Chronic hazards to the aquatic 100 %

environment

#### **Label Elements**



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# **Hazard Symbol:**



Signal Word: Danger

Hazard Statement: Precautionary Statements Causes serious eye damage.

**Prevention:** Wear eye protection/face protection.

**Response:** 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.

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	CAS number	Content in percent (%)*
Tartaric acid		87-69-4	100,00%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

**Ingestion:** Rinse mouth thoroughly. Get medical attention if symptoms occur.

**Inhalation:** Move to fresh air. Get medical attention if symptoms occur.

**Skin Contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation

persists after washing.

**Eye contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Call a physician

or poison control center immediately.

# Most important symptoms/effects, acute and delayed

**Symptoms:** Causes serious eye damage.

Hazards: None known.



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# Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically.

#### 5. Fire-fighting measures

**General Fire Hazards:** In case of fire and/or explosion do not breathe fumes.

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

#### Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

#### 6. Accidental release measures

Personal precautions, protective equipment and

emergency procedures:

Keep unauthorized personnel away. Use personal protective equipment.

See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning

up:

Sweep up and place in a clearly labeled container for chemical waste.

Clean surface thoroughly to remove residual contamination.

**Notification Procedures:** Prevent entry into waterways, sewer, basements or confined areas. Inform

authorities if large amounts are involved.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

# 7. Handling and storage

**Precautions for safe handling:** Use personal protective equipment as required. Avoid contact with eyes,

skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.

Conditions for safe storage,

including any incompatibilities:

Keep containers tightly closed. Store in cool, dry place. Store in a well-

ventilated place.

# 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 



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None of the components have assigned exposure limits.

Appropriate Engineering

**Controls** 

No data available.

#### Individual protection measures, such as personal protective equipment

**General information:** Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection** 

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

Other: Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation, use respiratory protection.

**Hygiene measures:** Provide eyewash station and safety shower. Always observe good personal

hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## 9. Physical and chemical properties

**Appearance** 

Physical state: Solid

Form: Crystals or powder.

Color: White
Odor: Odorless

Odor threshold: No data available. **pH:** No data available.

Melting point/freezing point: 206 °C

**Initial boiling point and boiling range:**No data available.

Flash Point: > 100 °C

Evaporation rate: No data available. Flammability (solid, gas): Not applicable.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available. Explosive limit - upper (%): No data available. **Explosive limit - lower (%):** No data available. Vapor pressure: No data available. Vapor density: No data available. Density: 1,76 g/ml (20 °C) 1,76 (20 °C) Relative density:

Solubility(ies)

Solubility in water: 582 g/l

**Solubility (other):**No data available.



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Partition coefficient (n-octanol/water): -1

Auto-ignition temperature: 375 °C

**Decomposition temperature:**No data available. **Viscosity:**No data available.

Other information

Molecular weight: 150,09 g/mol (C4H6O6)

# 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Material is unstable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

**Conditions to avoid:** Avoid dust close to ignition sources. Contact with incompatible materials.

Incompatible Materials: Silver. Alkalies.

**Hazardous Decomposition** 

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation:** Dust may irritate throat and respiratory system and cause coughing.

**Skin Contact:** May cause irritation.

**Eye contact:** Causes serious eye damage.

**Ingestion:** May cause irritation of the gastrointestinal tract.

#### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral

**Product:** LD 50 (Rat): 2.000 - 5.000 mg/kg

LD 50 (Rat): > 5.000 mg/kg

**Dermal** 

**Product:** LD 50 (Rat): > 2.000 mg/kg

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.



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Serious Eye Damage/Eye Irritation

**Product:** Causes serious eye damage.

Respiratory or Skin Sensitization

**Product:** Not a skin sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

**ACGIH Carcinogen List:** 

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** Not known.

Specific Target Organ Toxicity - Single Exposure Product: None known.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** None known.

**Aspiration Hazard** 

Product: Not classified

Other effects: No data available.

## 12. Ecological information

# **Ecotoxicity:**

Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.



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**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Persistence and Degradability

Biodegradation

**Product:** There are no data on the degradability of this product.

**BOD/COD Ratio** 

**Product:** No data available.

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

**Product:** No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: -1

**Mobility in soil:** The product contains substances, which are water soluble and may spread

in water systems.

Other adverse effects: The product components are not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills

can have a harmful or damaging effect on the environment.

13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even

after container is emptied.

### 14. Transport information

**TDG** 

Not regulated.

**IMDG** 

Not regulated.

IATA

Not regulated.

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

# 15. Regulatory information

**Canada Federal Regulations** 

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

Export Control List (CEPA 1999, Schedule 3)

Not Regulated



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# **National Pollutant Release Inventory (NPRI)**

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

NPRI PT5 Not Regulated

Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI Not Regulated

#### **Greenhouse Gases**

Not Regulated

# **Controlled Drugs and Substances Act**

CA CDSI Not Regulated

CA CDSII Not Regulated

CA CDSIII Not Regulated

CA CDSIV Not Regulated

CA CDSV Not Regulated

CA CDSVII Not Regulated

CA CDSVIII Not Regulated

# **Precursor Control Regulations**

Not Regulated

# International regulations

# Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

## **Kyoto protocol**

Not applicable



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## **Inventory Status:**

Australia AICS:

Canada DSL Inventory List:

EU EINECS List: EU ELINCS List: Japan (ENCS) List:

EU No Longer Polymers List:

China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory:

New Zealand Inventory of Chemicals: Switzerland Consolidated Inventory:

Japan ISHL Listing:

Disclaimer:

Japan Pharmacopoeia Listing:

On or in compliance with the inventory On or in compliance with the inventory On or in compliance with the inventory. Not in compliance with the inventory. On or in compliance with the inventory. On or in compliance with the inventory. On or in compliance with the inventory On or in compliance with the inventory. On or in compliance with the inventory. On or in compliance with the inventory. On or in compliance with the inventory On or in compliance with the inventory. Not in compliance with the inventory. On or in compliance with the inventory. On or in compliance with the inventory. Not in compliance with the inventory.

# 16.Other information, including date of preparation or last revision

**Revision Date:** 16.05.2018

Version #: 1.2

Further Information: No data available.

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