



## MATERIAL SAFETY DATA SHEET

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### ***TARTARIC ACID***

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Effective Date: January 2, 2009

#### **1. PRODUCT IDENTIFICATION**

**Synonyms:** L(+)-tartaric acid; 2,3 dihydroxybutanedioic acid CAS No.: 87-69-4

**Molecular Weight:** 150.1

**Chemical Formula:** HOOC(CH<sub>2</sub>O)<sub>2</sub>COOH

#### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Ingredient</u>	<u>CAS No</u>	<u>Percent</u>	<u>Hazardous</u>
Tartaric Acid	87-69-4	100%	No

#### **3. HAZARDS IDENTIFICATION**

##### **Emergency Overview**

**CAUTION! MAY CAUSE IRRITATION TO SKIN AND EYES**

Health Rating: 0 – None

Flammability Rating: 1 - Slight

Reactivity Rating: 0 – None

Contact Rating: 1 - Slight

Lab Protective Equip: Goggles, Lab Coat

Storage Color Code: Orange (General Storage)

##### **Potential Health Effects**

Information of the human health effects from exposure to this substance is limited.

**Inhalation:** Nuisance dust. May cause coughing and sneezing.

**Ingestion:** Mildly irritating to the gastro-intestinal system if large quantities are ingested. The effect is that of an acid, producing abdominal pain, nausea, vomiting and diarrhea.

**Skin Contact:** No adverse effects expected.

**Eye Contact:** Mild irritant and possibly temporarily abrasive. Reddening and tearing may be experienced.

**Chronic Exposure:** No information found.

**Aggravation of Pre-existing Conditions:** No information found.

#### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. Get medical attention for any breathing difficulty.

**Ingestion:** If swallowed, give several glasses of water to drink to dilute. If large amount were swallowed or symptoms occur, get medical advice. Never give anything by mouth to an unconscious person.

**Skin Contact:** Wash exposed area with soap and water. Get medical advice if irritation develops.

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.

#### 5. FIRE FIGHTING MEASURES

**Fire:** As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

**Explosion:** Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Fire Extinguishing Media:** Water spray, dry chemical, alcohol foam or carbon dioxide.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

#### 7. HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warning and precautions listed for the product.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Airborne Exposure Limits:**

- OSHA Permissible Exposure Limit (PEL):  
15 mg/m<sup>3</sup> total dust, 5 mg/m<sup>3</sup> respirable fraction for nuisance dusts.
- ACGIH Threshold Limit Value (TLV):  
10 mg/m<sup>3</sup> total dust containing no asbestos and < 1% crystalline silica for Particulates Not Otherwise Classified (PNOC).

### **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, a Manual of recommended Practice*, most recent edition, for details.

### **Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-facepiece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-sullied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

### **Skin Protection:**

Wear protective gloves and clean body-covering clothing.

### **Eye Protection:**

Use chemical safety goggles /safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White crystals.

**Solubility:** ca.133 g/100 g of water.

**Density:** 1.76

**Boiling point:** NA

**Vapor Density (Air=1):** NA

**Evaporation Rate (BuAc=1):** NA

**Odor:** Odorless.

**pH:** NA

**Volatiles by vol @ 21C (70F):** NA

**Melting Point:** 206C (403F)

**Vapor Pressure (mm Hg):** NA



## 10. STABILITY AND REACTIVITY

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide may form when heated to decomposition.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Silver and silver compounds.

**Conditions to Avoid:** Incompatibles.

## 11. TOXICOLOGICAL INFORMATION

No LD50/LC50 information found relating to normal routes of occupational exposure.

Cancer Lists

Ingredient	NTP Carcinogen		IARC Category
	Known	Anticipated	
Tartaric Acid (87 – 69 -)	No	No	None

## 12. ECOLOGICAL INFORMATION

**Environmental Fate:** No information found.    **Environmental Toxicity:** NA

## 13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. TRANSPORT INFORMATION: NOT REGULATED

## 15. REGULATORY INFORMATION

### Chemical Inventory Status – Part 1

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>	<u>Japan</u>	<u>Australia</u>
Tartaric Acid (87-69-4)	Yes	Yes	Yes	Yes

### Chemical Inventory Status – Part 2

<u>Ingredient</u>	<u>Korea</u>	<u>Canada</u> <u>DSL</u>	<u>NDSL</u>	<u>Phil.</u>
Tartaric Acid (87-69-4)	Yes	Yes	No	Yes

### Federal, State & International Regulations – Part 1

SARA 302                      SARA 313

<u>Ingredient</u>	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Chemical Catg</u>
Tartaric Acid (87-69-4)	No	No	No	No

### Federal, State & International Regulations – Part 2

<u>Ingredient</u>	<u>CERCLA</u>	<u>RCRA</u> <u>261.33</u>	<u>TSCA</u> <u>8(d)</u>
Tartaric Acid (87-69-4)	No	No	No

Chemical Weapons Convention: No    TSCA 12(b): No    CDTA: No  
 SARA 311/312: Acute: No    Chronic: No    Fire: No    Pressure: No  
 Reactivity: No                      (Pure / Solid)

**Australian Haz Chem Code:** NA

**Poison Schedule:** NA

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. OTHER INFORMATION

**NFPA Ratings:** Health: 0 Flammability: 1 Reactivity: 0

**Label Hazard Warning:** CAUTION! May cause irritation to skin and eyes.

**Label Precautions:** Avoid contact with eyes. Wash thoroughly after handling. Avoid breathing dust. Keep container closed. Use with adequate ventilation.

**Label First Aid:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

**Product use:** Laboratory Reagent.

**Revision Information:** New 16 section MSDS format, all sections have been revised.