



# SAFETY DATA SHEET

Preparation Date: 01/26/2015 Product identifier	Revision Date: Not Applicable	Revision Number: Not Applicable
Product code:	TA105	
Product Name:	TARTARIC ACID, GRANULAR, NF	
Other means of identification		
Synonyms:	2,3-Dihydroxybutanedioic acid; L-(+)-Tartaric Acid; N acid, 2,3-dihydroxy	/alic acid, 3-hydroxy-; Succinic
CAS #:	87-69-4	
RTECS #	WW7875000	
CI#:	Not available	
Recommended use of the chemi	cal and restrictions on use	
Recommended use:	No information available.	
Uses advised against	No information available	
Supplier:	Spectrum Chemicals and Laboratory Products, Inc.	
	14422 South San Pedro St.	
	Gardena, CA 90248 (310) 516-8000	
Order Online At:	https://www.spectrumchemical.com	
Order Online At.	https://www.spectrumenenical.com	
Emergency telephone number	Chemtrec 1-800-424-9300	
Contact Person:	Martin LaBenz (West Coast)	
Contact Person:	Ibad Tirmiz (East Coast)	
	2. HAZARDS IDENTIFICATION	

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

#### Label elements

#### Warning

**Hazard statements** Causes skin irritation Causes serious eye irritation May cause respiratory irritation



#### Hazards not otherwise classified (HNOC) Not Applicable

#### Other hazards

Not available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear eye/face protection Wear protective gloves

#### Precautionary Statements - Response

Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

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

Components	CAS-No.	Weight %	Trade Secret
L-Tartaric Acid	87-69-4	100	*
87-69-4			

### 4. FIRST AID MEASURES

First aid measures General Advice:

Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126)

# **4. FIRST AID MEASURES**

Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.
Eye Contact:	Flush eye with water for 15 minutes. Get medical attention.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.
Most important symptoms and effect	ts, both acute and delayed
Symptoms	Causes eye irritation. Eye contact may result in redness or pain. Causes skin irritation. Skin contact may result in redness, pain, inflammation, itching, scaling. May cause irritation of respiratory tract.
Indication of any immediate medical	l attention and special treatment needed
Notes to Physician:	Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

# **5. FIRE-FIGHTING MEASURES**

# **Extinguishing Media**

Suitable Extinguishing Media:	Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.
Unsuitable Extinguishing Media:	No information available.
Specific hazards arising from the chemical	
Hazardous Combustion Products:	Carbon oxides
Specific hazards:	May be combustible at high temperatures. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Special Protective Actions for Firefighters	
Specific Methods:	No information available.
Special Protective Equipment for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.
Methods and material for contain	ment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Hygroscopic. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### **Incompatible Materials:**

Alkalis. Oxidizing agents. Reducing agents. Bases.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### National occupational exposure limits

#### United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
L-Tartaric Acid - 87-69-4				

#### Canada

Components	Alberta	British Columbia	Ontario	Quebec
	None	None	None	None
L-Tartaric Acid - 87-69-4				

#### Australia and Mexico

Components	Australia	Mexico

L-Tartaric Acid	None	None
87-69-4		

# Appropriate engineering controls

Engineering measures to reduce exposure:	Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Individual protection measures, such as personal pro	otective equipment
Personal Protective Equipment	

Eye protection:	Goggles. Safety glasses with side-shields.
Skin and body protection:	Long sleeved clothing. Chemical resistant apron. Gloves.
Respiratory protection:	Effective dust mask. Wear respirator with dust filter
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid.

Odor: Odorless.

Molecular/Formula weight: 150.09

Flash Point Tested according to: Open cup

Autoignition Temperature (°C/°F): 425°C/797°F

Boiling point/range(°C/°F): No information available

Density (g/cm3): 1.76

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

**Miscibility:** No information available Appearance: Granular. Powder.

Taste Acid.

Flash point (°C): No data available

Lower Explosion Limit (%): No information available

pH: No information available

Decomposition temperature(°C/°F): No information available

No information available

5.18

Partition coefficient (n-octanol/water): No information available

#### Solubility:

Easily soluble in cold water Easily soluble in hot water Easily soluble in methanol Insoluble in Chloroform Soluble in diethyl ether Soluble in Glycerol Solubility in Ethanol: 1 g/3 ml Solubility in Ether: 1 g/250 ml Solubility in Methanol: 1 g/1.7 ml Solubility in propanol: 1 g/10.5 ml Solubility in Water: 1g/0.75 ml @ room temperature 1g/0.5 ml boiling water 115 g/100 ml @ 0°C 126 g/100 ml @ 10°C 139 g/100 ml @ 20°C 156 g/100 ml @ 30°C 176 g/100 ml @ 40°C 195 g/100 ml @ 50°C 217 g/100 ml @ 60°C 244 g/100 ml @ 70°C 273 g/100 ml @ 80°C 307 g/100 ml @ 90°C

### **10. STABILITY AND REACTIVITY**

Reactivity

**Bulk density:** 

Vapor density:

Color: White.

Formula: C4H6O6

Flashpoint (°C/°F): 210°C/410°F

**Upper Explosion Limit (%):** No information available

Melting point/range(°C/°F): 168°-172°C/334.4°-341.6°F

Specific gravity: No information available

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

# **10. STABILITY AND REACTIVITY**

#### Reacts with alkalis Reactive with oxidizing agents Reacts with bases Reacts with reducing agents Tartaric acid. Aqueous solution of tartaric acid can liberate explosive hydrogen gas in contact with reactive metals (Iron, Zinc, Aluminum)

Chemical stability Stability:	Hygroscopic. Stable at normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Ignition sources. Incompatible materials. Avoid dust formation. Dust may form explosive mixture in air. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to moisture.
Incompatible Materials:	Alkalis. Oxidizing agents. Reducing agents. Bases.
Hazardous decomposition products:	Carbon oxides.
Other Information	
Corrosivity:	No information available
Special Remarks on Corrosivity:	No information available

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation.

**Acute Toxicity** 

#### **Component Information**

#### L-Tartaric Acid - 87-69-4

LD50/oral/rat = 7500 mg/kg (LDLo) LD50/oral/mouse = No information available LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No infomation available Other LD50 or LC50information = 5000 mg/kg, LDLo oral, dog 5000 mg/kg, LDLo oral, rabbit 485 mg/kg, LD50 intravenous, mouse

#### **Product Information**

LD50/oral/rat = VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Product code: TA105

#### Value - Acute Tox Oral = No information available

LD50/dermal/rabbit VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

#### LC50/Inhalation/mouse

VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	Causes skin irritation.
Eye Contact:	Causes serious eye irritation.
Inhalation Ingestion	May cause irritation of respiratory tract. Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May affect behavior/central nervous system (convulsions, somnolence), and respiration
Aspiration hazard	No information available
Delayed and immediate effects a	s well as chronic effects from short and long-term exposure
Chronic Toxicity	Repeated or prolonged ingestion may cause lesions of the mouth, gastric ulcers, gastrointestinal hyperacidity, and symptoms similar to those of metal fume fever - flu- like condition with fever, chills, sweats, nausea, vomiting, muscle aches, pains, and weakness. It may also affect the kidneys Skin: Repeated or prolonged skin contact may cause skin ulcerations or lesions.
Sensitization:	No information available
Mutagenic Effects:	No information available
Carcinogenic effects:	Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
L-Tartaric Acid	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity	No data is available		
Reproductive Effects:	No information available		
Developmental Effects:	No information available		
Teratogenic Effects:	No information available		

**Specific Target Organ Toxicity** 

# **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Ecotoxicity effects:	No data available.		
Persistence and degradability:	No information available		
Bioaccumulative potential:	No information available		
Mobility:	No information available		

# **13. DISPOSAL CONSIDERATIONS**

#### **Disposal Methods**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
L-Tartaric Acid	None	None	None	None

### **14. TRANSPORT INFORMATION**

# DOT

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	Not applicable
Packing Group:	None
ERG No:	No information available
Marine Pollutant	No data available
DOT RQ (lbs):	No information available

# **TDG (Canada)**

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Description:	No information available

#### ADR

UN-No:

Not Regulated

Product code: TA105

Product name: TARTARIC ACID, GRANULAR, NF

# 14. TRANSPORT INFORMATION

		14. IKANSPUKI	
	Proper Shipping Name:	No information available	
	Hazard Class:	No information available	
	Packing Group:	No information available	
	Subsidiary Risk:	No information available	
	Classification Code:	No information available	
	Description:	No information available	
	<b>CEFIC Tremcard No:</b>	No information available	
IMO	/ IMDG		
	UN-No:	Not Regulated	
	Proper Shipping Name:	No information available	
	Hazard Class:	No information available	
		No information available	
	Subsidiary Risk:	No information available	
	Packing Group:		
	Description:	No information available	
	IMDG Page:	No information available	
	Marine Pollutant	No information available	
	MFAG:	No information available	
	Maximum Quantity:	No information available	
RID			
	UN-No:	Not Regulated	
	Proper Shipping Name:	No information available	
	Hazard Class:	No information available	
	Subsidiary Risk:	No information available	
	Packing Group:	No information available	
	Classification Code:	No information available	
	Description:	No information available	
ICAC	)		
	UN-No:	Not Regulated	
	Proper Shipping Name:	No information available	
	Hazard Class:	No information available	
	Subsidiary Risk:	No information available	
	Packing Group:	No information available	
	Description:	No information available	
	·		
ΙΑΤΑ			
	UN-No:	Not Regulated	
	Proper Shipping Name:	No information available	
	Hazard Class:	No information available	
	Subsidiary Risk:	No information available	
	Packing Group:	No information available	
	Description:	No information available	

# **15. REGULATORY INFORMATION**

# International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
L-Tartaric Acid	Present	Present KE- 10801	Present	Present (2)- 1456	Present [21192]	Present	Present 201-766-0

# U.S. Regulations

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1099

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen			Female Reproductive Toxicity:
L-Tartaric Acid	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Components	CERCLA - Hazardous Substances and their	Section 302 Extremely Hazardous	Section 302 Extremely Hazardous	Section 313 - Chemical Category	Section 313 - Reporting de minimis
	<b>Reportable Quantities</b>	Substances and TPQs	Substances and RQs		
L-Tartaric Acid	None	None	None	None	None

#### U.S. TSCA

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
L-Tartaric Acid	Not Applicable	Not Applicable

#### Canada

#### WHMIS hazard class:

E Corrosive material

#### L-Tartaric Acid

Е

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

#### Inventory

Components		Canada (NDSL)
L-Tartaric Acid	Present	Not Listed

Components		CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
L-Tartaric Acid	Not listed	Not listed

#### **EU Classification**

#### R-phrase(s)

R36 - Irritating to eyes. R37 - Irritating to respiratory system. R38 - Irritating to skin.

<u>S -phrase(s)</u> S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 - Wear suitable protective clothing.

S37 - Wear suitable gloves.

S39 - Wear eye/face protection.

Components	Classification	Concentration Limits:	Safety Phrases
L-Tartaric Acid		No information	

#### The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger: Xi - Irritant.

# **16. OTHER INFORMATION**

16. OTHER INFORMATION			
NFPA	HMIS	Personal Protective Equipment	
2 0	Health Hazard2Fire Hazard1Reactivity0		

Preparation Date: Revision Date: Prepared by:

**Disclaimer:** 

01/26/2015 Not Applicable Sonia Owen

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**