

## SAFETY DATA SHEET

Preparation Date: 10/27/2016

Revision Date: 11/19/2018

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

**Product code:** A1561  
**Product Name:** POTASSIUM ANTIMONY TARTRATE TRIHYDRATE, REAGENT, ACS

#### Other means of identification

**Synonyms:** Antimonate(2)-, bis(mu-tartrato(4-))di-, dipotassium, trihydrate  
 Tartrate de potassium d'antimoine trihydraté (French)  
 Tartrate antimonio-potassique [French];  
 Potassium antimony tartrate trihydrate  
 Tartaric acid, antimony potassium salt, trihydrate

**CAS #:** 28300-74-5  
**RTECS #** CC6825000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** Mordant in textile and leather industries.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.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 according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

#### Label elements

**Product code:** A1561

**Product name:** POTASSIUM  
 ANTIMONY TARTRATE  
 TRIHYDRATE, REAGENT, ACS

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## Danger

### Hazard statements

Toxic if swallowed  
Harmful if inhaled  
Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation  
May cause damage to organs through prolonged or repeated exposure



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

Toxic to aquatic life with long lasting effects

### **Precautionary Statements - Prevention**

Do not eat, drink or smoke when using this product  
Wear protective gloves  
Wear eye/face protection  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Wash face, hands and any exposed skin thoroughly after handling

### **Precautionary Statements - Response**

*Immediately call a POISON CENTER or doctor/physician*

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 water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

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

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product code:** A1561

**Product name:** POTASSIUM  
ANTIMONY TARTRATE  
TRIHYDRATE, REAGENT, ACS

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Components	CAS-No.	Weight %
Antimony Potassium Tartrate	28300-74-5	100

#### 4. FIRST AID MEASURES

##### First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.
- Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
- Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
- Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Toxic if swallowed. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

##### Most important symptoms and effects, both acute and delayed

- Symptoms**
- Causes skin irritation
  - Causes eye irritation
  - Irritating to respiratory system
  - Causes digestive (gastrointestinal) tract irritation
  - May cause salivation
  - May cause nausea
  - May cause diarrhea
  - May affect the cardiovascular system
  - May cause central nervous system effects
  - It may affect the kidneys

##### Indication of any immediate medical 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:** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray mist or foam.
- Unsuitable Extinguishing Media:** No information available.

## Specific hazards arising from the chemical

**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide. Potassium oxides. Antimony/Antimony oxides.

**Specific hazards:** May be combustible at high temperatures.

## 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:** Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment 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. Do not ingest. Do not breathe dust. Avoid dust formation. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

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

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:**

Acids  
Halogenated acids

Mineral acids  
 Tannic and Gallic acids  
 Reducing agents  
 Strong oxidizing agents  
 carbonates  
 Lead salts  
 Alkali hydroxides  
 Mercury bichloride  
 Lime water  
 Albumin  
 Bases  
 Lead  
 Silver salts

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### National occupational exposure limits

##### United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Antimony Potassium Tartrate	28300-74-5	0.5 mg/m <sup>3</sup> TWA (as Sb)	0.5 mg/m <sup>3</sup> TWA (as Sb)	0.5 mg/m <sup>3</sup> TWA (as Sb)	None

##### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Antimony Potassium Tartrate	28300-74-5	0.5 mg/m <sup>3</sup> TWA (as Sb)	0.5 mg/m <sup>3</sup> TWA (as Sb)	None	None

##### Australia and Mexico

Components	CAS-No.	Australia	Mexico
Antimony Potassium Tartrate	28300-74-5	0.5 mg/m <sup>3</sup> TWA (as Sb)	0.5 mg/m <sup>3</sup> TWA (as Sb)

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. 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 protective equipment

#### Personal Protective Equipment

**Eye protection:** Goggles or Safety glasses with side-shields.

**Skin and body protection:** Long sleeved clothing  
 Chemical resistant apron  
 Gloves

**Respiratory protection:** Wear respirator with dust filter. or. Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**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

<b>Physical state:</b> Solid	<b>Appearance:</b> Powder.	<b>Color:</b> White.
<b>Odor:</b> Odorless.	<b>Taste</b> Sweetish. Metallic.	<b>Formula:</b> C8-H4-K2-O12-Sb2.3H2O
<b>Molecular/Formula weight (g/mole):</b> 667.87	<b>Flammability:</b> No information available	<b>Flashpoint (°C/°F):</b> No information available.
<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> No information available	<b>Lower Explosion Limit (%):</b> No information available
<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> 100°C (212°F)	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> No information available	<b>Bulk density:</b> 1.3	<b>Density (g/cm3):</b> 2.6
<b>Specific gravity:</b> 2.6	<b>pH:</b> 4 at 20°C (68°F)	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Insoluble in Alcohol Soluble in Water Solubility in Water: 9 g/100 ml @ 25 °C Soluble in Glycerol	

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with strong oxidizing agents

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Avoid dust formation. Incompatible materials.

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**Incompatible Materials:** Acids  
Halogenated acids  
Mineral acids  
Tannic and Gallic acids  
Reducing agents  
Strong oxidizing agents  
carbonates  
Lead salts  
Alkali hydroxides  
Mercury bichloride  
Lime water  
Albumin  
Bases  
Lead  
Silver salts

**Hazardous decomposition products:** Carbon monoxide. Carbon dioxide. When heated to decomposition it emits toxic fumes. Oxides of potassium. Antimony. Antimony oxide.

**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:**  
Skin. Eyes. Ingestion. Inhalation.

### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document  
**Component Information**

Antimony Potassium Tartrate	
CAS-No.	28300-74-5

**LD50/oral/rat** = 115 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 600 mg/kg  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50 information** = 115 mg/kg oral LD50 [Rabbit]

### **Product Information**

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = 115 mg/kg

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = 600 mg/kg

**LD50/dermal/rabbit**

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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 eye irritation.

**Inhalation** Harmful by inhalation. Irritating to respiratory system. Symptoms may include coughing and shortness of breath.

**Ingestion** Toxic if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause abdominal pain. May cause salivation. May cause ulcerations in the esophagus and stomach. May cause muscle weakness. May affect liver. May affect urinary system (kidneys). May cause mydriasis (dilated pupils). May affect the cardiovascular system (hypotension). May affect respiration (dyspnea - difficulty breathing and shortness of breath; hyperventilation). May affect the cardiovascular system (slow heart rate (bradycardia)). May affect cardiovascular system (hypotension, cardiac arrhythmias). May cause hemolytic anemia. May affect behavior/central nervous system (dizziness, headache). May affect behavior/central nervous system (somnolence). May affect behavior/central nervous system (hallucinations, distorted perceptions, irritability, loss of sleep).

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Chronic exposure may affect the liver, kidneys, and blood. Prolonged or repeated ingestion may affect the cardiovascular system. Prolonged or repeated ingestion may cause weight loss.

**Sensitization:** No information available.

**Mutagenic Effects:** May affect genetic material

**Carcinogenic effects:** Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Antimony Potassium Tartrate	28300-74-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*



IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

**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**

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organs:** Liver. Kidneys. Respiratory system. Lungs. Eyes. Skin. Cardiovascular system.

**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	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Antimony Potassium Tartrate	28300-74-5	None	None	None	None

**14. TRANSPORT INFORMATION**

**DOT**  
**UN-No:** UN1551  
**Proper Shipping Name:** Antimony potassium tartrate  
**Hazard Class:** 6.1  
**Subsidiary Class** No information available  
**Packing group:** III  
**Emergency Response Guide Number** 151

**Product code:** A1561

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**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** IB8, IP3, T1, TP33  
**Symbol(s):** No information available  
**Description:** UN1551, Antimony potassium tartrate, 6.1, III

#### **TDG (Canada)**

**UN-No:** UN1551  
**Proper Shipping Name:** Antimony potassium tartrate  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No information available  
**Description:** UN1551, Antimony potassium tartrate, 6.1, III

#### **ADR**

**UN-No:** UN1551  
**Proper Shipping Name:** Antimony potassium tartrate  
**Hazard Class:** 6.1  
**Packing Group:** III  
**Subsidiary Risk:** No information available  
**Description:** UN1551, Antimony potassium tartrate, 6.1, III

#### **IMO / IMDG**

**UN-No:** UN1551  
**Proper Shipping Name:** Antimony potassium tartrate  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No information available  
**EMS:** F-A  
**Description** UN1551, Antimony potassium tartrate, 6.1, III

#### **RID**

**UN-No:** UN1551  
**Proper Shipping Name:** Antimony potassium tartrate  
**Hazard Class:** 6.1  
**Subsidiary Risk:** 6.1  
**Packing Group:** III  
**Description:** UN1551, Antimony potassium tartrate, 6.1, III

#### **ICAO**

**UN-No:** UN1551  
**Proper Shipping Name:** Antimony potassium tartrate  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN1551, Antimony potassium tartrate, 6.1, III

#### **IATA**

**UN-No:** UN1551  
**Proper Shipping Name:** Antimony potassium tartrate  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**ERG Code:** 6L  
**Special Provisions** No information available  
**Description:** UN1551, Antimony potassium tartrate, 6.1, III

**Product code:** A1561

**Product name:** POTASSIUM  
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TRIHYDRATE, REAGENT, ACS

## 15. REGULATORY INFORMATION

### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Antimony Potassium Tartrate</i>	28300-74-5	Not Listed	Not present	Present	Not present	Present	Present	Not present

### U.S. Regulations

#### *Antimony Potassium Tartrate*

**Massachusetts RTK:** Present

**New Jersey RTK Hazardous Substance List:** 0145

**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present

**Pennsylvania RTK:** Environmental hazard

**Pennsylvania RTK - Environmental Hazard List** Present

**Minnesota - Hazardous Substance List:** Present (as Antimony compounds)

**New York Release Reporting - List of Hazardous Substances:**

100 lb RQ

**Louisiana Reportable Quantity List for Pollutants:** 100lbfinal RQ

45.4kgfinal RQ

**California Directors List of Hazardous Substances:** Present

#### 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	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Antimony Potassium Tartrate	28300-74-5	Not Listed	Not Listed	Not Listed	Not Listed

### CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
<i>Antimony Potassium Tartrate</i>	28300-74-5	100 lb final RQ 45.4 kg final RQ	None	None	None	None

### U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Antimony Potassium Tartrate	28300-74-5	Not Applicable	Not Applicable

### Canada

#### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

**Product code:** A1561

**Product name:** POTASSIUM  
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Component  
Antimony Potassium Tartrate  
28300-74-5 ( 100 )

WHMIS 2015 Hazard Classification  
Acute toxicity - Oral - Category 3: H301 Toxic if swallowed.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Components	WHMIS Ingredient Disclosure List -
Antimony Potassium Tartrate	1% (as Antimony compounds)

#### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Antimony Potassium Tartrate	28300-74-5	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Antimony Potassium Tartrate	28300-74-5	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Antimony Potassium Tartrate	28300-74-5	Not listed

#### EU Classification

##### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Antimony Potassium Tartrate	28300-74-5	No Information

##### EU - CLP (1272/2008)

#### R-phrases(s)

R20 - Harmful by inhalation.  
R25 - Toxic if swallowed.  
R36/38 - Irritating to eyes and skin.

#### S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37 - Wear suitable gloves.  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Antimony Potassium Tartrate	28300-74-5		No information	

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

#### Indication of danger:

Xn - Harmful.  
Xi - Irritant.  
T - Toxic



## 16. OTHER INFORMATION

**Preparation Date:** 10/27/2016  
**Revision Date:** 11/19/2018  
**Prepared by:** Roumann Pangilinan

**Disclaimer:** 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**