## SECTION 1: Identification

### 1.1. Identification

<table>
<thead>
<tr>
<th>Product form</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance name</td>
<td>Potassium Antimony Tartrate, Trihydrate</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>28300-74-5</td>
</tr>
<tr>
<td>Product code</td>
<td>LC18710</td>
</tr>
<tr>
<td>Formula</td>
<td>C8H4K2O12Sb2.3H2O</td>
</tr>
<tr>
<td>Synonyms</td>
<td>2,3-dihydroxy butanedioic acid antimonypotassium salt, trihydrate / antimonate(2-), bis[mu-tartrato(4-)]di-, dipotassium, trihydrate / antimony potassium salt tartaric acid, trihydrate / antimony potassium tartrate, trihydrate / potassium antimony(III)oxide tartrate, trihydrate / tartarized antimony, trihydrate</td>
</tr>
</tbody>
</table>

### 1.2. Recommended use and restrictions on use

<table>
<thead>
<tr>
<th>Use of the substance/mixture</th>
<th>Use as laboratory reagent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of the substance/mixture</td>
<td>Insecticide</td>
</tr>
<tr>
<td></td>
<td>Pesticide</td>
</tr>
<tr>
<td></td>
<td>Leather: mordant</td>
</tr>
<tr>
<td></td>
<td>Textile: mordant</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommended use</th>
<th>Laboratory chemicals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restrictions on use</td>
<td>Not for food, drug or household use</td>
</tr>
</tbody>
</table>

### 1.3. Supplier

LabChem, Inc.
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court
Zelienople, PA 16063 - USA
T 412-826-5230 - F 724-473-0647

### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or +1-703-741-5970

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>GHS-US classification</th>
<th>H301</th>
<th>Toxic if swallowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Category 3</td>
<td></td>
</tr>
<tr>
<td>Hazardous to the aquatic environment - Acute</td>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
<tr>
<td>Hazard Category 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

**GHS US labeling**

<table>
<thead>
<tr>
<th>Hazard pictograms (GHS US)</th>
<th>:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hazard</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Signal word (GHS US)</strong></td>
<td>Danger</td>
</tr>
</tbody>
</table>
| **Hazard statements (GHS US)** | H301 - Toxic if swallowed  
H401 - Toxic to aquatic life |
| **Precautionary statements (GHS US)** | P264 - Wash exposed skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P330 - If swallowed, rinse mouth  
P405 - Store locked up.  
P501 - Dispose of contents/container to comply with local, state and federal regulations |
Potassium Antimony Tartrate, Trihydrate
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2.3. Other hazards which do not result in classification
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances
Substance type: Mono-constituent

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Antimony Tartrate, Trihydrate</td>
<td>(CAS-No.) 28300-74-5</td>
<td>100</td>
<td>Acute Tox. 3 (Oral), H301 Aquatic Acute 2, H401</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

3.2. Mixtures
Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact: Rinse with water. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

First-aid measures after eye contact: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.

First-aid measures after ingestion: Rinse mouth with water. Give nothing to drink. Victim is fully conscious: immediately induce vomiting. Induce vomiting by giving a 0.9 % saline solution. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital.

4.2. Most important symptoms and effects (acute and delayed)
Symptoms/effects after inhalation: AFTER INHALATION OF DUST: Irritation of the respiratory tract. Dry/sore throat. Irritation of the nasal mucous membranes. EXPOSURE TO HIGH CONCENTRATIONS: Respiratory difficulties.

Symptoms/effects after skin contact: Slight irritation.

Symptoms/effects after eye contact: Slight irritation.


4.3. Immediate medical attention and special treatment, if necessary
No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media
Suitable extinguishing media: Adapt extinguishing media to the environment for surrounding fires.

5.2. Specific hazards arising from the chemical
Fire hazard: DIRECT FIRE HAZARD. Non combustible.

5.3. Special protective equipment and precautions for fire-fighters
Precautionary measures fire: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions: Cool tanks/drums with water spray/ remove them into safety. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel


Emergency procedures: Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes.

Measures in case of dust release: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection. Do not breathe dust.

Emergency procedures: Ventilate area. Stop release.

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill.

Methods for cleaning up: Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Do not discharge the waste into the drain. Keep container tightly closed.

Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities


Incompatible materials: incompatible materials. Direct sunlight.

Heat-ignition: KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage: KEEP SUBSTANCE AWAY FROM: oxidizing agents. strong acids. (strong) bases.

Storage area: Store at room temperature. Meet the legal requirements.

Special rules on packaging: SPECIAL REQUIREMENTS: closing. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>ACGIH TWA (mg/m³)</th>
<th>0.5 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>0.5 mg/m³</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls

Appropriate engineering controls: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Hand protection:
Gloves

Eye protection:
Face shield. In case of dust production: protective goggles

Skin and body protection:
Protective clothing

Respiratory protection:
Dust production: dust mask with filter type P3

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Appearance: Crystalline solid. Powder.
Color: Colourless to white
Odor: Odorless
Odor threshold: No data available
pH: No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: Not applicable
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): No data available
Vapor pressure: No data available
Relative vapor density at 20 °C: Not applicable
Relative density: 2.6
Specific gravity / density: 2600 kg/m³
Molecular mass: 378.97 g/mol
Solubility: Moderately soluble in water. Substance sinks in water.
Water: 5.5 g/100ml
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosion limits: Not applicable
Explosive properties: Not applicable.
Oxidizing properties: No data available.

9.2. Other information

VOC content: 0 %
Other properties: Translucent.
SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
No additional information available

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Avoid dust formation. Direct sunlight.

10.5. Incompatible materials

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Likely routes of exposure</th>
<th>Inhalation; Skin and eye contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Potassium Antimony Tartrate, Trihydrate (28300-74-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>115 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral)</td>
</tr>
<tr>
<td>115 mg/kg body weight</td>
</tr>
</tbody>
</table>

| Skin corrosion/irritation                             |
| Not classified                                       |
| Serious eye damage/irritation                         |
| Not classified                                       |
| Respiratory or skin sensitization                    |
| Not classified                                       |
| Germ cell mutagenicity                               |
| Not classified                                       |
| Carcinogenicity                                      |
| Not classified                                       |
| Reproductive toxicity                               |
| Not classified                                       |
| Specific target organ toxicity – single exposure     |
| Not classified                                       |
| Specific target organ toxicity – repeated exposure   |
| Not classified                                       |
| Aspiration hazard                                   |
| Not classified                                       |

| Potential Adverse human health effects and symptoms |
| Harmful if swallowed. Slightly irritant to skin. Harmful if inhaled. Slightly irritant to respiratory organs. Slightly irritant to eyes. |
| Symptoms/effects after inhalation                    |
| AFTER INHALATION OF DUST: Irritation of the respiratory tract. Dry/sore throat. Irritation of the nasal mucous membranes. EXPOSURE TO HIGH CONCENTRATIONS: Respiratory difficulties. |
| Symptoms/effects after skin contact                  |
| Slight irritation.                                   |
| Symptoms/effects after eye contact                   |
| Slight irritation.                                   |
| Symptoms/effects after ingestion                     |
| Chronic symptoms                                     |

SECTION 12: Ecological information

12.1. Toxicity

| Ecology - general | Dangerous for the environment. |
| Ecology - water   | Harmful to crustacea. Harmful to fishes. Toxic to algae. |

<table>
<thead>
<tr>
<th>Potassium Antimony Tartrate, Trihydrate (28300-74-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
<tr>
<td>9 mg/l (48 h, Daphnia magna, Metal ion)</td>
</tr>
</tbody>
</table>
Potassium Antimony Tartrate, Trihydrate

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
Potassium Antimony Tartrate, Trihydrate (28300-74-5)
Bioaccumulative potential Not bioaccumulative.

12.4. Mobility in soil
Potassium Antimony Tartrate, Trihydrate (28300-74-5)
Ecology - soil No (test)data on mobility of the substance available.

12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods
Waste disposal recommendations : Refer to supplier/manufacturer. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse.


SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT
Transport document description : UN1551 Antimony potassium tartrate, 6.1, III

UN-No.(DOT) : UN1551
Proper Shipping Name (DOT) : Antimony potassium tartrate
Packing group (DOT) : III - Minor Danger
Hazard labels (DOT) : 6.1 - Poison

DOT Packaging Non Bulk (49 CFR 173.xxx) : 213
DOT Packaging Bulk (49 CFR 173.xxx) : 240
Potassium Antimony Tartrate, Trihydrate

DOT Special Provisions (49 CFR 172.102) : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).

IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 100 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 200 kg

DOT Vessel Stowage Location : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

Other information : No supplementary information available.

Transport by sea

Transport document description (IMDG) : UN 1551 antimony potassium tartrate, 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

UN-No. (IMDG) : 1551

ProperShipping Name (IMDG) : antimony potassium tartrate

Class (IMDG) : 6.1 - Toxic substances

Packing group (IMDG) : III - substances presenting low danger

EmS-No. (1) : F-A

EmS-No. (2) : S-A

Air transport

Transport document description (IATA) : UN 1551 Antimony potassium tartrate, 6.1, III, ENVIRONMENTALLY HAZARDOUS

UN-No. (IATA) : 1551

Proper Shipping Name (IATA) : Antimony potassium tartrate

Class (IATA) : 6.1 - Toxic Substances

Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Potassium Antimony Tartrate, Trihydrate (28300-74-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA’s List of Lists) : 100 lb

SARA Section 311/312 Hazard Classes : Health hazard - Acute toxicity (any route of exposure)

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Potassium Antimony Tartrate, Trihydrate : CAS-No. 28300-74-5 : 100%
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15.2. International regulations

CANADA

Potassium Antimony Tartrate, Trihydrate (28300-74-5)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations
No additional information available

National regulations

Potassium Antimony Tartrate, Trihydrate (28300-74-5)
Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Revision date : 04/24/2019

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>H301</th>
<th>Toxic if swallowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
</tbody>
</table>

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 2 - Materials that readily undergo violent chemical change at elevated temperatures and pressures.

Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.

Personal protection : F

F - Safety glasses, Gloves, Synthetic apron, Dust respirator

SDS US LabChem

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