

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/15/2004 Revision date: 10/14/2013 Supersedes: 10/15/2010 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Substance name : Potassium Antimony Tartrate, Trihydrate

CAS No : 28300-74-5
Product code : LC18710

Formula : C4H4KO7Sb.3H2O

Synonyms : 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

BIG no : 26736

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Use as laboratory reagent

Use of the substance/mixture : Insecticide

Pesticide Leather: mordant Textile: mordant

1.3. Details of the supplier of the safety data sheet

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 info@labchem.com - www.labchem.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute Tox. 3 (Oral) H301 Aquatic Acute 2 H401

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS06

Signal word (GHS-US) : Danger

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

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type : Mono-constituent

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Name	Product identifier	%	GHS-US classification
Potassium Antimony Tartrate, Trihydrate (Main constituent)	(CAS No) 28300-74-5	100	Acute Tox. 3 (Oral), H301 Aquatic Acute 2, H401

Full text of H-phrases: see section 16

Mixture

Not applicable

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

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. Remove clothing before washing. Take victim to a doctor if irritation persists.

First-aid measures after eye contact

Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation

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. Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries 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/injuries after skin contact Symptoms/injuries after eye contact

Slight irritation. Slight irritation.

Symptoms/injuries after ingestion

Vomiting. Nausea. Abdominal pain. AFTER ABSORPTION OF HIGH QUANTITIES: Dizziness.

Muscular pain. Disturbances of consciousness

Chronic symptoms

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Feeling of weakness. Pain in the joints. Affection of the renal tissue. Change in the haemogramme/blood composition. Risk of pneumonia.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

: EXTINGUISHING MEDIA FOR SURROUNDING FIRES: All extinguishing media allowed.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture

Fire hazard

Reactivity

: DIRECT FIRE HAZARD. Non combustible.

Explosion hazard

DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT

EXPLOSION HAZARD. No data available on indirect explosion hazard.

: Upon combustion CO and CO2 are formed and formation of metallic fumes.

Advice for firefighters

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.

Protection during firefighting

Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment

: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.

Emergency procedures

Mark the danger area. Prevent dust cloud formation, e.g. by wetting. 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

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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 release

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.

Dam up the solid spill. Knock down/dilute dust cloud with water spray.

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. 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 : Comply with the legal requirements. Remove contaminated clothing immediately. Clean

contaminated clothing. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local

exhaust/ventilation or with respiratory protection.

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 products : Strong acids. Strong bases. Strong oxidizers.

Incompatible materials : incompatible materials. Direct sunlight.

Heat and ignition sources : 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.

Packaging materials : SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium Antimony Tartrate, Trihydrate (28300-74-5)		
USA ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.5 mg/m ³

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity

of any potential exposure. Provide adequate general and local exhaust ventilation.

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data

available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data

available

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 P2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Powder.

Molecular mass : 378.97 g/mol Colour : Colourless to white.

Odour : Odourless.
Odour threshold : No data available
pH : No data available

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Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : Not applicable Self ignition temperature : No data available Decomposition temperature : No data available : No data available Flammability (solid, gas) : No data available Vapour pressure Relative vapour density at 20 °C : No data available

Relative density : 2.6

Density : 2600 kg/m³

Solubility : Moderately soluble in water. Substance sinks in water.

Water: 5.5 g/100ml

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : Not applicable.
Oxidising properties : No data available.
Explosive limits : No data available

9.2. Other information

Other properties : Translucent. Substance has acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion CO and CO2 are formed and formation of metallic fumes.

10.2. Chemical stability

No data available.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Avoid dust formation. Direct sunlight.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Antimony and its oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Toxic if swallowed.

Acute toxicity	. Tokicii Swallowed.
Potassium Antimony Tartrate, Trihydrate (\f)28300-74-5	
LD50 oral rat	115 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: 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

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Symptoms/injuries 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/injuries after skin contact : Slight irritation.
Symptoms/injuries after eye contact : Slight irritation.

Symptoms/injuries after ingestion : Vomiting. Nausea. Abdominal pain. AFTER ABSORPTION OF HIGH QUANTITIES: Dizziness.

Muscular pain. Disturbances of consciousness.

Chronic symptoms : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Feeling of

weakness. Pain in the joints. Affection of the renal tissue. Change in the haemogramme/blood

composition. Risk of pneumonia.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Dangerous for the environment.

Ecology - air : TA-Luft Klasse 5.2.5/I

Ecology - water : Severe water pollutant (surface water). Maximum concentration in drinking water: 0.0050 mg/l

(antimony) (Directive 98/83/EC). Harmful to fishes. Harmful to invertebrates (Daphnia). Toxic to

algae.

Potassium Antimony Tartrate, Trihydrate (28300-74-5)	
LC50 fishes 1	10 - 100 mg/l (96 h; Pisces)
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)
EC50 Daphnia 1	9 mg/l (48 h; Daphnia magna; METAL ION)
TLM fish 1	12 - 20,96 h; Pimephales promelas; METAL ION
Threshold limit other aquatic organisms 1	10 - 100,96 h
Threshold limit algae 1	0.63 mg/l (72 h; Algae; METAL ION)

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

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Refer to supplier/manufacturer. Recycle/reuse.

Additional information : Hazardous waste according to Directive 2008/98/EC.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

UN-No.(DOT) : 1551 DOT NA no. UN1551

14.2. UN proper shipping name

DOT Proper Shipping Name : Antimony potassium tartrate

Department of Transportation (DOT) Hazard

Classes

: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Hazard labels (DOT) : 6.1 - Toxic substances

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Packing group (DOT) : III - Minor Danger

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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.

T1 - 1.5 178.274(d)(2) Normal...... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153
DOT Packaging Non Bulk (49 CFR 173.xxx) : 213
DOT Packaging Bulk (49 CFR 173.xxx) : 240
Marine pollutant : P



14.3. Additional information

Other information : No supplementary information available.

State during transport (ADR-RID) : as solid.

Overland transport

Packing group (ADR) : III

Class (ADR) : 6.1 - Toxic substances

Hazard identification number (Kemler No.) : 60
Classification code (ADR) : T5

Danger labels (ADR) : 6.1 - Toxic substances



Orange plates



Tunnel restriction code : F

Transport by sea

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

passenger vessel.

EmS-No. (1) : F-A EmS-No. (2) : S-A

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 100 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 200 kg

CFR 175.75)

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 Listed on SARA Section 313 (Specific toxic chemical listings)

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Potassium Antimony Tartrate, Trihydrate (283	00-74-5)
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	100 lb

15.2. International regulations

CANADA

Potassium Antimony Tartrate, Trihydrate (28300-74-5)		
Listed on the Canadian DSL (Domestic Sustances List) inventory.		
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects	

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Inhalation) H332 Acute Tox. 4 (Oral) H302 Aquatic Chronic 2 H411 Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R20/22 N; R51/53

Full text of R-phrases: see section 16

15.2.2. National regulations

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

Listed on the Canadian Ingredient Disclosure List

15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases: see section 16:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 2	Hazardous to the aquatic environment — AcuteHazard, Category 2
H301	Toxic if swallowed
H401	Toxic to aquatic life

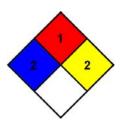
NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

 2 - Normally unstable and readily undergo violent decomposition but do not detonate. Also: may react violently with water or may form potentially explosive

mixtures with water.



HMIS III Rating

NFPA reactivity

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

Flammability : 1 Slight Hazard
Physical : 2 Moderate Hazard

Personal Protection : F

SDS US (GHS HazCom 2012)

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