

1 Identification

Product identifier

Product name: Potassium antimonyl tartrate

Stock number: A10889

CAS Number:

331753-56-1

Index number:

051-003-00-9

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

Identified use: SU24 Scientific research and development

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660

Fax: 800-322-4757

Email: tech@alfa.com

www.alfa.com

Information Department: Health, Safety and Environmental Department

Emergency telephone number:

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2 Hazard(s) identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Hazards not otherwise classified No information known.

Label elements

GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)

Hazard pictograms



GHS07

Signal word Warning

Hazard statements

H302+H332 Harmful if swallowed or if inhaled.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.

P312 Call a POISON CENTER/doctor/.../if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

WHMIS classification

D1B - Toxic material causing immediate and serious toxic effects



Classification system

HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

HEALTH 2 Health (acute effects) = 2

FIRE 1 Flammability = 1

REACTIVITY 1 Physical Hazard = 1

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances

CAS# Description:

331753-56-1 Potassium antimonyl tartrate

Identification number(s):

Index number: 051-003-00-9

4 First-aid measures

Description of first aid measures

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek medical treatment.

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Information for doctor
Most important symptoms and effects, both acute and delayed No further relevant information available.
Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special hazards arising from the substance or mixture
If this product is involved in a fire, the following can be released:
Carbon monoxide and carbon dioxide
Metal oxide fume
Advice for firefighters
Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.
Methods and material for containment and cleaning up:
Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.
Prevention of secondary hazards: No special measures required.
Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

Handling
Precautions for safe handling
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation at the workplace.
Information about protection against explosions and fires: No information known.
Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Store away from oxidizing agents.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters
Components with limit values that require monitoring at the workplace:

Antimony and antimony compounds	
mg/m3	
ACGIH TLV	0.5
Austria MAK	0.5
Belgium TWA	0.5
Denmark TWA	0.5
Finland TWA	0.5
France VME	0.5
Germany MAK	0.5 (total dust)
Hungary TWA	0.5-STEEL
Japan OEL	0.1; 2B Carcinogen
Korea TLV	0.5
Ireland TWA	0.5
Netherlands MAC-TGG	0.5
Norway TWA	0.5
Poland TWA	0.5; 1.5-STEEL
Russia TWA	0.2; 0.5-STEEL
Sweden NGV	0.5
Switzerland MAK-W	0.5
United Nations TWA	0.5
USA PEL	0.5

Additional information: No data

Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use suitable respirator when high concentrations are present.
Protection of hands:
Impervious gloves
Check protective gloves prior to each use for their proper condition.
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
Eye protection: Safety glasses

Product name: Potassium antimonyl tartrate		
Body protection: Protective work clothing.		
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9 Physical and chemical properties		
Information on basic physical and chemical properties		
General Information		
Appearance:		
Form:	Crystalline	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start:	Not determined	
Flash point:		
Not applicable		
Flammability (solid, gaseous)		
Not determined.		
Ignition temperature:		
Not determined		
Decomposition temperature:		
Not determined.		
Auto igniting:		
Not determined.		
Danger of explosion:		
Product does not present an explosion hazard.		
Explosion limits:		
Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:		
Not applicable.		
Density at 20 °C (68 °F):		
2.607 g/cm³ (21.755 lbs/gal)		
Relative density		
Not determined.		
Vapor density		
Not applicable.		
Evaporation rate		
Not applicable.		
Solubility in / Miscibility with		
Water:	Not determined	
Partition coefficient (n-octanol/water):		
Not determined.		
Viscosity:		
dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information		
No further relevant information available.		
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recommended storage conditions.		
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions No dangerous reactions known		
Conditions to avoid No further relevant information available.		
Incompatible materials: Oxidizing agents		
Hazardous decomposition products:		
Carbon monoxide and carbon dioxide		
Metal oxide fume		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity:		
Harmful if inhaled.		
Harmful if swallowed.		
LD/LC50 values that are relevant for classification:		
Oral	LD50	600 mg/kg (mouse)
		115 mg/kg (rat)
	LDLo	1857 µg/kg (human)
Skin irritation or corrosion: Irritant to skin and mucous membranes.		
Eye irritation or corrosion: Irritating effect.		
Sensitization: No sensitizing effects known.		
Germ cell mutagenicity: No effects known.		
Carcinogenicity: Carcinogen as defined by OSHA.		
Reproductive toxicity: No effects known.		
Specific target organ system toxicity - repeated exposure: No effects known.		
Specific target organ system toxicity - single exposure: No effects known.		
Aspiration hazard: No effects known.		
Other information (about experimental toxicology):		
Mutagenic effects have been observed on tests with bacteria.		
Mutagenic effects have been observed with human fibroblast.		
Mutagenic effects have been observed on tests with laboratory animals.		
Subacute to chronic toxicity:		
Antimony compounds may cause metallic taste, gastrointestinal disturbances, vomiting, diarrhea, dizziness and systemic poisoning. Chronic exposure may cause liver and kidney damage. Dermatitis and eczematous skin eruptions may result from skin contact.		
Subacute to chronic toxicity:		
The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals:		
Sense Organs and Special Senses (Eye) - mydriasis (pupillary dilation).		
Behavioral - somnolence (general depressed activity).		
Behavioral - hallucinations, distorted perceptions.		
Behavioral - muscle weakness.		
Related to Chronic Data - death.		
Gastrointestinal - nausea or vomiting.		
Nutritional and Gross Metabolic - body temperature increase.		
Nutritional and Gross Metabolic - weight loss or decreased weight gain.		
Lungs, Thorax, or Respiration - dyspnea.		
Liver - other changes.		
Liver - hepatitis (hepatocellular necrosis), zonal		
Liver - changes in liver weight.		
Liver - fatty liver degeneration.		
Endocrine - changes in spleen weight.		
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USA		

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Blood - changes in erythrocyte (RBC) count.
Peripheral Nerve and Sensation - spastic paralysis with or without sensory change.
Skin and Appendages - hair.
Kidney, Ureter, Bladder - changes in bladder weight.
Kidney, Ureter, Bladder - changes in tubules (including acute renal failure, acute tubular necrosis).
Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - dehydrogenases.
Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - transaminases.
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

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12 Ecological information

Toxicity
Aquatic toxicity: No further relevant information available.
Persistence and degradability No further relevant information available.
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Ecotoxicological effects:
Remark: Toxic for aquatic organisms
Additional ecological information:
General notes:
Do not allow product to reach ground water, water course or sewage system.
Do not allow material to be released to the environment without proper governmental permits.
Toxic for aquatic organisms
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic to aquatic life.
May cause long lasting harmful effects to aquatic life.
Avoid transfer into the environment.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods
Recommendation Consult state, local or national regulations to ensure proper disposal.
Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number DOT, IMDG, IATA	UN1551
UN proper shipping name DOT IMDG, IATA	Antimony potassium tartrate ANTIMONY POTASSIUM TARTRATE
Transport hazard class(es) DOT	
	
Class Label Class Label IMDG, IATA	6.1 Toxic substances. 6.1 6.1 (T5) Toxic substances 6.1
	
Class Label	6.1 Toxic substances. 6.1
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Environmentally hazardous substance, solid
Special precautions for user	Warning: Toxic substances
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1551, Antimony potassium tartrate, 6.1, III

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms



GHS07

Signal word Warning
Hazard statements
H302+H332 Harmful if swallowed or if inhaled.

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USA

Product name: Potassium antimonyl tartrate	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell. P312 Call a POISON CENTER/doctor/.../if you feel unwell. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed on the Canadian Domestic Substances List (DSL). This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.	
SARA Section 313 (specific toxic chemical listings)	
331753-56-1 Potassium antimonyl tartrate	
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. This product contains antimony and is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to know Act of 1986 and 40CFR372. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
16 Other information	
Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	