



1 Identification Product identifier Product name: Potassium antimonate trihydrate Stock number: 39524 CAS Number: 12208-13-8 EC number: 235-387-7 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 Su Bong 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. H302+H332 Harmful if swallowed or if inhaled. **Precautionary statements** P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P303 Rinse mouth. P304 P210 IF SWALL OWED: Cell a DOISON CONTED/destor if you feel yourgell. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P312 Call a POISON CENTER/doctor if you feel unwell. P312 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. D1B - Toxic material causing immediate and serious toxic effects S. Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
 EALTH
 Image: Constraint of the sector of t 2 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 12208-13-8 Potassium antimonate trihydrate Identification number(s): EC number: 235-387-7 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.

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Product name: Potassium antimonate trihydrate	
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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.	
Information for doctor	
Most important symptoms and effects, both acute and delayed Harmful if swallowed.	
Harmful if shaled.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire.	
Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	
If this product is involved in a fire, the following can be released: Antimony oxides	
Potassium oxide	
Advice for firefighters	
Protective equipment: Wear self-contained respirator.	
Wear fully protective impervious suit.	
6 Accidental release measures	
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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13.	
Dispose of contaminated material as waste according to section 13.	
Ensure adequate ventilation.	
Enspose of containinated indefinitials waste according to section 15. 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.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.	
Information about protection against explosions and fires: The product is not flammable	
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: Do not store together with acids. Further information about storage conditions:	
Keep container tightly sealed.	
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:	
12208-13-8 Potassium antimonate trihydrate (100.0%)	
PEL (USA) Long-term value: 0.5 mg/m ³ as Sb	
REL (USA) Long-term value: 0.5 mg/m ³	
as Sb	
TLV (USA) Long-term value: 0.5 mg/m ³ as Sb	
EL (Canada) Long-term value: 0.5 mg/m ³	
as Sb	
Additional information: No data	
Exposure controls Personal protective equipment	
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.	
Recommended filter device for short term use:	
Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.	to determine if air-
Punifying respirations are appropriate. Only use equipment tested and approved under appropriate government standards. 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.	
Material of gloves	
Fluorocarbon rubber (Viton) Nitrile rubber, NBR	
	(Contd. on page 3)
	USA

Penetration time of glove material (in minutes) 480 Glove thickness 0.11 mm Eye protection: Safety glasses 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 or powder	
Odor: Odor threshold:	Odorless Not determined	
	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined	
Upper: Vapor prossuro:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water at 20 °C (68 °F):	28 g/l	
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 recom	mended storage conditions.	
Thermal decomposition / conditions	to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No	o dangerous reactions known	
Conditions to avoid No further relevan Incompatible materials: Acids	t information available.	
Hazardous decomposition products:		
Antimony oxides		
Potassiúm oxide		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity:		
Harmful if inhåled.		
Harmful if swallowed. LD/LC50 values that are relevant for o	classification. No data	
Skin irritation or corrosion: May caus		
Eye irritation or corrosion: May cause	irritation	
Eye irritation or corrosion: May cause Sensitization: No sensitizing effects kn	own.	
Germ cell mutagenicity: No effects kn	own.	
	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know Specific target organ system toxicity	n. - repeated exposure: No effects known.	
Specific target organ system toxicity		
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effect	ts known.	
C C	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
Carcinogenic categories		
USHA-Ca (Occupational Safety & Hea	alth Administration) Substance is not listed.	
40 Feelenieel infermentiem		
12 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant int	ormation available.	
Persistence and degradability No furth Bioaccumulative potential No further	ner relevani iniormation available. relavant information available	
Mobility in soil No further relevant info	mation available.	
Additional ecological information:		
General notes:		
Do not allow product to reach ground wa	ater, water course or sewage system.	
Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisopous for fibe and playton in water bodies.		
Also poisonous for fish and plankton in water bodies. Toxic to aquatic life.		
May cause long lasting harmful effects to aquatic life.		
May cause long lasting harmful effects to aquatic life. Avoid transfer into the environment.		
Results of PBT and VPVB assessmen	t	
PBT: Not applicable. vPvB: Not applicable.		
		(Contd. on page 4)
		USA -

	Revision date 08/18/2016
Product name: Potassium antimonate trihydrate	
Other adverse effects No further relevant information available.	(Contd. of page 3)
13 Disposal considerations	
Waste treatment methods Recommendation Consult state, local or national regulations to ensure prope Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	er disposal.
14 Transport information	
UN-Number	UN1549
DOT, IMDG, IATA UN proper shipping name	0111549
DOF JATA	Antimony compounds, inorganic, solid, n.o.s. (Potassium antimonate trihydrate) ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S. (Potassium antimonate trihydrate)
Transport hazard class(es)	
DOT, IMDG, IATA Class Class Label	6.1 Toxic substances. 6.1 (T5) Toxic substances 6.1
Packing group DOT, IMDG, IATA	
DOT, IMDG, IATA Environmental hazards:	III Environmentally hazardous substance, solid
Special precautions for user	Warning: Toxic substances
EMS Number:	F-A,S-Ă
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co	de Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1549, Antimony compounds, inorganic, solid, n.o.s. (Potassium antimonate trihydrate), 6.1, III
product must not be used for commercial purposes or in formulations for comm This product is not listed on the Canadian Domestic Substances List (DSL) or SARA Section 313 (specific toxic chemical listings) 12208-13-8 Potassium antimonate trihydrate 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 ind Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regula The conditions of restrictions according to Article 67 and Annex XVII of t market and use must be observed. Substance on the set of the set of the conditions of the set of the s	vell. ational/international regulations. substances Control Act Chemical Substance Inventory. Use of this product is restricted nder the supervision of a technically qualified individual as defined by TSCA. This mercial purposes. the Canadian Non-Domestic Substances List (NDSL). lividuals.
Annex XIV of the REACH Regulations (requiring Authorisation for use) So Chemical safety assessment: A Chemical Safety Assessment has not been 16 Other information Employers should use this information only as a supplement to other informatio information to ensure proper use and protect the health and safety of employer conformance with this Material Safety Data Sheet, or in combination with any of Department issuing SDS: Global Marketing Department Date of preparation / last revision 08/19/2016 / - Abbreviations and acronyms: ADB: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement IMDG: International Maritime Code for Dangerous Goods	ion gathered by them, and should make independent judgement of suitability of this es. This information is furnished without warranty, and any use of the product not in other product or process, is the responsibility of the user.

Safety Data Sheet acc. to OSHA HCS

Product name: Potassium antimonate trihydrate

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- DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Hazardous Materials Identification System (Canada) LC50: Lethal concentration, 50 percent USD: Lethal concentration, 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) Acute Tox. 4: Acute toxicity, Hazard Category 4

USA