

Antimony Potassium Tartrate (Tartar Emetic)

Page 1 of 11

Section 1 – Identification	on of the substance/mixture an	d of the company/undertaking			
Product		Antimony potassium tartrate trihydrate			
Identifier/Name:					
Trade Name and	Tartar Emetic				
Synonyms:					
Chemical Name:	L+ Antimony Potassium Tartrate				
Relevant Identified		ion; PC 20: Products such as ph-regulators, flocculants,			
Uses of the		s; PC 21: Laboratory chemicals; PC 14: Metal surface			
Substance or Mixture	treatment products; PC 15: Non-r	metal-surface treatment products.			
and Uses Advised					
Against:					
Restrictions On Use:	All not explicitly identified				
Details of the Supplier:		Questions Contact: compliance@atpgroup.com			
	2 Madison Ave.	Emergency Phone:			
	Larchmont, NY 10538 USA	800-424-9300 – CHEMTREC (24/7) – within USA &			
	Telephone: 914-834-1881	Canada			
	Fax: 914-834-4611				
Section 2 – Hazards Ide	entification	1 (101) 030-00+0 - ATT Gloup			
	d Labelling of the Substance or	· Mixture·			
GHS Classification in	Acute toxicity, Oral (Category 3),				
accordance with 29	Acute toxicity, Inhalation (Category 3),				
	Skin irritation (Category 2), H315				
	Skin irritation (Category 2), H315 Skin sensitization (Category 1), H317 Long-term (chronic) aquatic hazard (Category 2),				
	H411 For the full text of the H-Statements mentioned in this Section, see Section 16				
		atomonio menuonea in the ecotion, see ecotion re			
Label Elements					
Signal Word: Hazard Statement:	Danger				
nazaru Statement.	H301 Toxic if swallowed.				
	H315 Causes skin irritation.				
	H317 May cause an allergic skin	reaction.			
	H332 Harmful if inhaled.				
	H411 Toxic to aquatic life with lor	ng lasting effects.			
Pictogram:	〈※〉〈!〉〈峚〉				
	V V V				
Precautionary Statement	::P261 Avoid breathing dust.				
	P264 Wash skin thoroughly after	handling			
	P270 Do not eat, drink or smoke				
	P271 Use only outdoors or in a w	· ·			
	P272 Contaminated work clothing must not be allowed out of the workplace. P273 Avoid release to the environment.				
F273 Avoid felease to the environment.					



Antimony Potassium Tartrate (Tartar Emetic)

Page 2 of 11

	1					
	P280 Wear protective gloves.					
	P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.					
	Rinse mouth.					
	P302 + P352 IF ON SKIN: Wash with plenty of soap and water.					
	P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for					
	breathing. Call a POISON CENTE	•	·			
	P333 + P313 If skin irritation or ra	•	attention			
	P362 Take off contaminated cloth					
	P391 Collect spillage.	ing and wash before rease.				
	P405 Store locked up.					
	P501 Dispose of contents/ contain	ner to an annroved waste disnos	sal nlant			
Hazards not otherwise	There is not any other hazard kno		вагріані.			
classified (HNOC):	linere is not any other nazard kno	yvii.				
Special Provisions:	None					
-	on / Information on Ingredients					
Substances:	L(+) (2R,3R)-2,3-	CAS No. 28300-74-5	100%			
	dihydroxybutanedioic					
	acid, antimony potassium salt					
	trihydrate					
Mixtures:	lillydiale					
Composition comments:						
Section 4 – First Aid Mo						
			41. 1 41. 1			
	Inhalation: After inhalation: fresh					
Measures:	artificial respiration. Oxygen if ned					
	Ingestion: If swallowed: give water	er to drink (two glasses at most)	. Seek medical advice			
	immediately.	and care in not available within a	no hour induce vemiting			
	In exceptional cases only, if medic					
	(only in persons who are wide aw					
	(20 - 40 g in a 10% slurry) and co					
	Skin Contact: In case of skin con		mammated clothing.			
	Rinse skin with water/ shower. Co Eye Contact: After eye contact: r		maya contact lancas			
Most Important						
Most Important	The most important known symptons 2) and/or in section 11	oms and enects are described if	i the labelling (see			
Symptoms and	section 2) and/or in section 11.	a raaniratary ayatam irritation if i	pholod and akin/ayas			
Effects, acute and	Exposure to the substance cause	s respiratory system imitation if i	nnaieu, anu skin/eyes			
delayed:	irritation. Depending on the dose and the exposure time, the substance may produce dermatitis.					
Indication of A			ly produce dermatitis.			
Indication of Any	Treatment should in general be symptomatic and palliative.					
Immediate Medical						
Attention and Special						
Treatment Needed:						
General information						
Section 5 - Firefighting	Mossuros					



Antimony Potassium Tartrate (Tartar Emetic)

Page 3 of 11



Antimony Potassium Tartrate (Tartar Emetic)

Page 4 of 11

Control Parameters:	Ingredients with workplace control parameters						
	Component	CAS- No	Value	Control parameters	Basis		
	dipotassium bis[µ- tartrato(4-)]diantimonate(2-) trihydrate	28300- 74-5	TWA	0.5 mg/m ³	USA. Occupational Exposure		
					Limits (OSHA) - Table Z-1 Limits for Air Contaminants		
			TWA	0.5 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)		
			TWA	0.5 mg/m ³	USA. NIOSH Recommended Exposure Limits		
			PEL	0.5 mg/m ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)		
Exposure controls	Engineering Controls : immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.						
	Personal protective equipment: The selection of personal protection equipment changes depending on						
	potential exposure conditions such as applications, handling, concentration and ventilation. The information presented below is based on normal use.						
	Respiratory protection: Needed in case of dust. Wear suitable respiratory protection – minimum efficiency of 95.0 % (EN-149 – type FFP3 filter).						
	Hand protection: The types of gloves to be considered are: Chemical resistant gloves. Wear suitable gloves tested to EN374.; If skin contamination						
	is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those						
	described for the hands (as disposable overalls ISO 13982-1 or EN 13034). Gloves should be checked and replaced regularly because they wear out, can						
	break and lose their protective effectiveness. Eye protection: Use safety chemical face shield according to EN 136.						
	Body protection: Weal exposure. Chemical res	specific p	otective c	lothes to avoid a	a repeated		
General Hygiene:	Wash after handling material an work clothing and protective equipment.	d before ea	ating, drink	ing or smoking.	Routinely, wash		
Environmental Contro	Is Avoid spills on soil, water or was	stes, excep	t those as	pects indicated	in the hazardous		



Antimony Potassium Tartrate (Tartar Emetic)

Page 5 of 11

	1					
The present ones want to be general indications, for a correct choice of the personal protection, an assessment of exposure to chemical agents specific to the use department must be carried out, from this, an indication of the protection more suited to the actual						
	conditions of use, will be obtained; the use of the product in solution implies a reshaping					
		ion compared to those recommende	ed.			
	nd Chemical Properties					
	hysical and Chemical Prop					
Appearance: Color	Powder, Colorless, transparent or White	Flammability:	Not applicable			
Odor:	Non data available	Upper Flammability/Explosive Limit:	Not applicable			
Odor Threshold:	Not applicable	Lower Flammability/Explosive Limit:	Not applicable			
pH:	3.5-4.5 at 20 °C	Vapor Pressure:	9.9E-13 Pa (at 25°C)			
Melting Point:	231.6 – 233 °C	Vapor Density:	No data available			
Freezing Point:	Not applicable	Relative Density:	2.6 g/cm ³			
Boiling Point:	666.8 °C (QSAR predicted value)	Water Solubility:	83 g/L at 20 °C			
Boiling Range:	No data available	Partition Coefficient: n- octanol/water:	-7.28 I(og Pow)			
Flash Point:	No data available Auto Ignition Temperature: No data available					
Evaporation Rate:	No data available	Decomposition Temperature:	No data available			
Molecular Weight:	667.85	Viscosity:	Not applicable			
Granulometry:	46-52 μm	Oxidizing properties:	None			
Section 10 – Stability and Reactivity						
Reactivity:	Reactivity: The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.					
Chemical Stability:	The substance does not sho oxidant or acid substances.	The substance does not show any reactivity hazards under normal conditions. Avoid oxidant or acid substances.				
Hazardous Polymerization:	Polymerization process doe					
Possibility of Hazardous Reaction	Avoid contact with oxidant substances or mixtures.					
Conditions to Avoid:	Avoid high temperatures					
Incompatible Materials:	•					
Hazardous Decomposition Products	At high temperatures, toxic gases may be released: Stibine or potassium oxides					
Section 11 - Toxicolog	ical Information					
Information on Toxicological Effects:	Acute Toxicity: LD50 Oral - Rat - 115 mg/kg Acute toxicity estimate Inhalation - 1.51 mg/l - dust/mist					
	(Expert judgment)					



Antimony Potassium Tartrate (Tartar Emetic)

Page 6 of 11

Dermal: No data available

Inhalation:

Data not available (the substance is poorly absorbed via inhalation).

Eye damage/irritation:

The substance is an irritant. It is not foreseeable irreversible eye damage.

Ingestion:

Bibliography data reports DL50 (oral, mouse) = 600 mg/kg bw

Skin corrosivity/Irritation:

No studies were located regarding absorption of antimony in humans following dermal exposure. Only the exposure to high levels of antimony trioxide or a mixture of antimony trioxide and pentoxide suggests that some forms of antimony can be absorbed through the skin.

The skin irritation/corrosion was evaluated by the test according to the guideline study OECD No. 439: In Vitro Skin Irritation. Reconstructed Human Epidermis Test Method, yielding a result of positive indication of irritation. The test was performed according to the guideline study OECD 431, the substance showed no corrosive effects.

Sensitization:

There are some data, from tests performed according to OECD Guideline 442D (In Vitro Skin Sensitization: ARE-Nrf2 Luciferase Test Method) that show the following results: The substance is considered positive because the following conditions are met: Imax is >1.5 fold increased and statistically significant (p<0.05) compared to the negative control. Cell viability is >70% at the lowest concentration with an induction of luciferase activity >1.5 fold. EC1.5 value is < 1000 µM.

This result has been confirmed by the test In vitro Sensitization: human Cell Line Activation Test (h-CLAT): the test item did upregulate the cell surface markers in at least two independent experiment runs. Therefore, the test item is considered to be a skin sensitizer.

Repeated Dose Toxicity:

There is some bibliographic data that showed repeated-dose toxicity: a no-observed adverse effect level (NOAEL) is considered to be at 50 ppm antimony in drinking water (equivalent to a calculated intake of 6 mg kg body weight/day).

There is no unequivocal evidence of the carcinogenicity, mutagenicity nor reproduction toxicity effects.

Some data, considered not totally reliable, found chromosomal aberrations in intraperitoneally exposure in male rats.

Carcinogenicity:

IARC: 2A - Group 2A: Probably carcinogenic to humans (Dipotassium bis[μ-[tartrato(4-)-ο1,ο2:ο3,ο4]]diantimonate(2-) trihydrate)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.



Antimony Potassium Tartrate (Tartar Emetic)

Page 7 of 11

Mutagenicity:
Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
Remarks: (anhydrous substance)
Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
Remarks: (ECHA)
Reproduction Toxicity:
No data available
Aspiration hazard:
No data available
Chronic effects:
No data available
RTECS: CC6825000
Potassium antimony tartrate is the most potent trivalent antimony compound. Trivalent
antimony compounds are more toxic than the pentavalent because they are excreted
slowly., Gastrointestinal disturbance, Headache, Dizziness, Weakness, Kidney injury may
occur.
Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence
ogical Information
There are several acute toxicity data for the aquatic life:
Acute Toxicity:
OECD Guideline 201 (Freshwater Alga and Cyanobacteria, Pseudokirchneriella
subcapitata, Growth Inhibition Test, 72h) EC50 = 206 mg/L and EC50 = 111 mg/L
OECD Guideline 203 (Oryzias latipes, 96 h) EC50 = 120 mg/L, NOEC = 120 mg/L
OECD Guideline 203 (Rainbow trout, 4 d) EC50 = 37 mg/L
OECD Guideline 202 (Invertebrates) CL50 (Simocephalus mixtus, 24h) = 4.92 mg/L
CL50 (Daphnia Magna, 48h) = 6.7 mg/L
Long-term toxicity:
EC50 (Rainbow trout, 30 d) = 16 mg/L
OECD Guideline 210 (Oryzias latipes, Early-Life Stage Toxicity Test, 14 d) NOEC = 300 mg/L
(Daphnia Magna, Reproduction Toxicity Test, 30 d) NOEC = 0.8 mg/L
The comparation between the tests performed indicates that invertebrate may be more
sensitive than fish and aquatic plants species.
According to Table R.10-4 from Guidance on information requirements and chemical
safety assessment Chapter R.10, an assessment factor of 50 is considered regarding the
available data, two long-term results (NOECs) from species representing two trophic leve



Antimony Potassium Tartrate (Tartar Emetic)

Page 8 of 11

	(fish and Danhaia)				
	(fish and Daphnia). Furthermore, the lowest value of the long-term toxicity is used (800 μg/L).				
Persistence &	Data regarding degradability of the substance:				
Degradability:	OECD Guideline 310 (Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test)				
Dogradusiiity.	aerobic sludge. Mixed treatment plant of urban (about 66%) and industrial (about 34%) %				
	degradation (TOC removal) = 92% (28 d)				
	The substance is considered readily biodegradable in aerobic conditions.				
Bioaccumulation	There is no evidence of the accumulative effects in animals, but the log Kow<4.5 indicates				
Potential:	a low bioaccumulative potential.				
Mobility in Soil:	No data available				
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not				
vpvB Assessment:	conducted				
Endocrine disrupting	No data available				
properties:					
Other Adverse Effects:	No data available				
Section 13 – Disposal (Considerations				
Waste Treatment	Product				
Methods:	Waste material must be disposed of in accordance with the national and local				
	regulations.				
	Leave chemicals in original containers. No mixing with other waste. Handle uncleaned				
	containers like the product itself.				
Section 14 – Transport	Information				
DOT	UN number: 1551				
	Transport Hazard Class: 6.1				
	Packing group:				
	Proper shipping name: ANTIMONY POTASSIUM TARTRATE				
	Reportable Quantity (RQ): 100 lbs				
	Poison Inhalation Hazard: No				
IMDG/IMO	UN number: 1551				
	Transport Hazard Class: 6.1				
	Packing group:				
	Proper shipping name: ANTIMONY POTASSIUM TARTRATE				
	EMS-No: F-A, S-A				
	Marine pollutant: yes				
IATA	UN number: 1551				
	Transport Hazard Class: 6.1				
	Packing group:				
	Proper shipping name: ANTIMONY POTASSIUM TARTRATE				
TDG	UN number: 1551				
	Transport Hazard Class: 6.1				
	Packing group:				
	Proper shipping name: ANTIMONY POTASSIUM TARTRATE				
Section 15 – Regulator	y Information				



Antimony Potassium Tartrate (Tartar Emetic)

Page 9 of 11

Safety Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture

USA - Federal regulations

TSCA - US EPA (TSCA) - Toxic Substances Control Act: Not listed

SARA 313:

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Antimony potassium tartrate	28300-74-5	100	1.0

SARA 311/312: Acute Health Hazard, Chronic Health Hazard. See section 2 for more information

CWA - Clean Water Act:

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Antimony potassium tartrate	Х	-	X	-

CAA - Clean Air Act:

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Antimony potassium tartrate	X		-

OSHA - Occupational Safety and Health Administration: Not applicable

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act: This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302

Component	Hazardous Substances RQs	CERCLA EHS RQs
Antimony potassium tartrate	100 lb	-

USA - State specific regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Antimony potassium tartrate	X	Х	X	X	Х

International Regulations

Mexico - Grade No: information available

Authorization/Restrictions according to EU REACH



Antimony Potassium Tartrate (Tartar Emetic)

Page 10 of 11

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Antimony potassium tartrate	28300-74-5	-	Use restricted. See item 75. (see link for restriction details)	-

REACH links https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Antimony potassium tartrate	28300-74-5	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Antimony potassium tartrate	28300-74-5	Not applicable	Not applicable	Not applicable	Annex I - Y27

Section 16 - Other Information

HMIS® Ratings Health: 3 Flammability:

Physical hazard:

NFPA Ratings Health: 2

Flammability: 1 Instability: 0

Physical hazard: N/A

Creation date Revision date 11/11/2015 9/13/2024

Version #

3.0



Antimony Potassium Tartrate (Tartar Emetic)

Page 11 of 11

Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard
	replacing the current legislation under 29 CFR 1910.1200 to align with the Globally
	Harmonized System of Classification and Labeling of Chemicals (GHS).

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