

Material Safety Data Sheet



According to EC-Directive 91/155/EEC

Date of Issue: 09.10.2006

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1. Substance and Company Information

Name of Product: **Antimony alloy**

Usage of Compound: Metal vapor sources

Company: ALVATEC Production and Sales GesmbH
Friesacher Straße 3
A-9330 Treibach-Althofen, Austria
Tel.: +43/4262/26441321

Emergency: <http://www.who.int/ipcs/poisons/centre/directory/en/>

2. Composition/Information of Ingredients

Chemical name: ANTIMONY (Sb)
CAS-Number: 7440-36-0
EINECS-Number: 231-146-5

3. Hazards Information

No hazardous product as specified in the Directive 67/548/EEC.

4. First Aid Measures

General notes: Remove contaminated clothes instantly.

Inhalation exposure: If inhaled remove to fresh air. If breathing is stopped give artificial respiration and call a physician.

Dermal exposure: In case of skin contact, flush with water and soap. Remove contaminated clothes instantly.

Eye exposure: After contact with eyes, flush with water. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Oral exposure: If swallowed wash out the mouth with water provided person is conscious. Call a physician.

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5. Fire-fighting measures

Suitable extinguishing media:	Use extinguishing media appropriate to surrounding fire conditions.
Special risks:	Fire generates toxic fumes.
Special protective equipment for fire fighting:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

Personal precautions:	Avoid contact. Wear protective clothing, protective glasses and gloves. Remove unprotected persons. Ventilate area.
Environmental measures:	Avoid liberating of the substance.
Measures for cleaning:	Take up mechanically. Hold for waste disposal. Ventilate area. Avoid formation of dust.

7. Handling and storage

Handling:	Keep container safely closed. Ensure ventilation of workplace. Container should be opened only by a technically qualified person.
Storage:	Keep container dry and safely closed. Do not store together with strong oxidizers and acids.

8. Exposure control and personal protection

Personal Protection:	
General notes:	Avoid inhalation, contact with eyes and skin.
Industrial hygiene:	Remove contaminated clothing immediately. Store working clothes separately.
Hand protection:	Use gloves from Latex, Chloropren, Nitrile rubber, Viton, or Butyl rubber (Level 6, Permeation time* >480 min) *)Permeation times may vary depending of type and usage conditions!
Eye protection:	Safety glasses
Personal protection:	Use protective clothes ascertained resistance to chemicals
Respiratory protection:	Use self-contained breathing apparatus in case of risk of dust or fumes. Ensure ventilation of the workplace.

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Exposure limits:	Country	Value
	Austria MAK	0.5 mg/m ³
	Danmark TWA	0.5 mg/m ³
	Germany MAK	0.5 mg/m ³
	Finland TWA	0.5 mg/m ³
	France VME	0.5 mg/m ³
	Netherlandes TWA	0.5 mg/m ³
	Norway TWA	0.5 mg/m ³
	Poland NDS	0.5 mg/m ³
	Poland NDSCh	1.5 mg/m ³
	Sweden NGV	0.5 mg/m ³
	Switzerland MAK	0.5 mg/m ³
	UK TWA	0.5 mg/m ³
	USA PEL	0.5 mg/m ³

9. Physical and chemical properties

Physical State:	solid
Color:	gray
Odor:	not available
Melting point:	alloy controlled, pure metal 630,5 °C
Boiling point:	alloy controlled, pure metal 1635 °C
Flammable point:	not ignitable
Density:	not available
Solubility in water:	not soluble
pH-Value:	not available

10. Stability and reactivity

Thermal decomposition:	No decomposition under normal conditions.
Materials to avoid:	Oxidizers, acids.
Conditions to avoid:	Possibility of tarnishing by exposure to air or moisture.
Hazardous reactions:	Reactions with acids liberates toxic fumes of stibine (SbH ₃).
Hazardous decomposition products:	Metal oxide fumes

11. Toxicological Information

Notes:	Values of acute and chronic toxicology are not known completely.
Further toxicological notes:	Longer or repeated exposition may effect allergic reaction for sensitive persons.
Indications and symptomes of exposition:	Vertigo, headache, nausea, vomiting, diarrhea.
After Breathing:	May cause irritations of mucous membrane and respiratory system.
After skin contact:	May cause irritations.
After eye contact:	May cause irritations.
After swallowing:	May be harmful to heart and respiratory system.

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Acute Toxicity: LD50 (Oral Rat) 7000 mg/kg
LD50 (Intraperitoneal Rat) 100 mg/kg
LD50 (Intraperitoneal Mouse) 90 mg/kg

Chronic effects: Alterations of the ECG, especially T-wave abnormalities, myocardial changes, pneumoconiosis, but also pneumonitis, tracheitis, laryngitis, bronchitis, pustular skin eruptions called antimony spots, and contact allergy to the metal.

Carcinogenic effects: Rat - Route of Application: Inhalation
Exposure Time: 7H/52W
Result: Lungs, Thorax, or Respiration: Tumors.

Tumorigenic: Carcinogenic by RTECS criteria.

12. Ecological information

Eco-toxicological effects: No data available.
Notes: Avoid liberation!

13. Disposal information

General notes: Observe chapter 7 before handle with product or container.
EWC-Code: 06 04 05

This material must be disposed in the compliance of the local, federal or national waste regulations. Contact a licensed waste disposal services to dispose this material.

14. Transport information

Not subject for transport regulations

15. Regulatory Information

No hazardous product as specified in the Directive 67/548/EEC.

S-Phrases: 22 Do not breathe dust.

Water hazard class: 2 hazardous for water (self-assessment)

16. Further Information

All information is based upon our best present knowledge. 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. The applicant is responsible for the observance of the appropriate safety regulations.
