

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.09.2018

Version number 2

Revision: 14.09.2018

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

- Product identifier
- Trade name: Antimony powder
- Article number: 009018, 900304
- CAS Number:
7440-36-0
- EC number:
231-146-5
- Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
- Application of the substance / the preparation SU24 Scientific research and development

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2 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS06 skull and crossbones

Acute Tox. 3

H301 Toxic if swallowed.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4

H332 Harmful if inhaled.

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

T; Toxic

R25: Toxic if swallowed.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Information concerning particular hazards for human and environment: Not applicable.

- Label elements

- Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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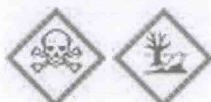
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· Hazard pictograms



GHS06 GHS09

- Signal word Danger
- Hazard statements
 - H301 Toxic if swallowed.
 - H332 Harmful if inhaled.
 - H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P301+ P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 - P321 Specific treatment (see on this label).
 - P304+ P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Description
 - 7440-36-0 Antimony powder
- Identification number(s)
- EC number: 231-146-5

4 First aid measures

- Description of first aid measures
- General information:
 - Immediately remove any clothing soiled by the product.
 - In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
- 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 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents: Special powder for metal fires. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture
 - If this product is involved in a fire, the following can be released:

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- Antimony oxides
- Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- Protective equipment: Wear fully protective 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 contaminated material as waste according to item 13.
Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
- 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
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
- Information about fire- and explosion protection: No special measures required.
- 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 halogens.
Store away from oxidizing agents.
- Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Store under lock and key and with access restricted to technical experts or their assistants only.
Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical facilities:
Properly operating chemical fume hood designed for hazardous chemicals and having average face velocity of at least 100 feet per minute.
- Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- Respiratory protection: Use suitable respiratory protective device when high concentrations are present.

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- Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves
Impervious gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses
- Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Powder
Colour:	Grey
· Odour:	Odourless
· Odour threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	630.7 °C
Boiling point/Boiling range:	1587 °C
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Self-igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density at 20 °C:	6.68 g/cm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.

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· Other information

No further relevant information available.

10 Stability and reactivity

- Reactivity
- Chemical stability No decomposition if used and stored according to specifications.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials:
 - Oxidizing agents
 - Halogens
- Hazardous decomposition products: in case of fire: see Chapter 5.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

- LD/LC50 values relevant for classification:

Oral	LD50	100 mg/kg (rat)
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- Primary irritant effect:
 - on the skin: May cause irritation.
 - on the eye: May cause irritation.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
 - To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
- Carcinogenicity:
 - The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this product.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxicological effects:
- Remark: Toxic for fish
- Additional ecological information:
- General notes:
 - Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
 - Danger to drinking water if even extremely small quantities leak into the ground.
 - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 - Also poisonous for fish and plankton in water bodies.
 - Do not allow material to be released to the environment without proper governmental permits.
 - Toxic for aquatic organisms
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

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13 Disposal considerations

- Waste treatment methods
- Recommendation
Hand over to disposers of hazardous waste.
Must be specially treated under adherence to official regulations.
Consult state, local or national regulations for proper disposal.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· ADR, IMDG, IATA	UN2871
· UN proper shipping name	
· ADR	2871 ANTIMONY POWDER, ENVIRONMENTALLY HAZARDOUS
· IMDG	ANTIMONY POWDER, MARINE POLLUTANT
· IATA	ANTIMONY POWDER
· Transport hazard class(es)	
· ADR, IMDG	
	
	
· Class	6.1 Toxic substances.
· Label	6.1
· IATA	
	
· Class	6.1 Toxic substances.
· Label	6.1
· Packing group	
· ADR, IMDG, IATA	III
· Environmental hazards:	Environmentally hazardous substance, solid; Marine Pollutant
· Marine pollutant:	Yes (P)
· Special marking (ADR):	Symbol (fish and tree)
	Symbol (fish and tree)
· Special precautions for user	Warning: Toxic substances.
· EMS Number:	F-A, S-
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5 kg
· Transport category	2

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· Tunnel restriction code	E
· UN "Model Regulation":	UN2871, ANTIMONY POWDER, ENVIRONMENTALLY HAZARDOUS, 6.1, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations:
- Information about limitation of use:
For use only by technically qualified individuals.
Employment restrictions concerning juveniles must be observed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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