

Safety Data Sheets

1. Identification

Product name :Antimony(III) sulfide

Name of supplier :JUNSEI CHEMICAL CO., LTD.

Address :1-6, Ohmano-Cho, Koshigaya, Saitama 343-0844, Japan

Division :Quality Assurance Department

Phone :+81-48-986-6161

FAX :+81-48-989-2787

E-mail :shiyaku-t@junsei.co.jp

Product code(SDS NO) :32590jis_J_E1-1

2. Hazards identification

GHS classification and label elements of the product

GHS classification

HEALTH HAZARDS

Acute toxicity Oral : Category 4

Acute toxicity inhalation : Category 4

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment-chronic toxicity : Category 2

(Note) GHS classification without description : Not applicable/Out of classification/Not classifiable



Signal word : Warning

HAZARD STATEMENT

Harmful if swallowed.

Harmful if inhaled

Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT

Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash contaminated parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Response

Call a POISON CENTRE or doctor/physician if you feel unwell.

Rinse mouth.

Collect spillage.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Disposal

Dispose of contents/container in accordance with local/national regulation.

3. Composition/information on ingredients

Substance/Preparation : Substance

Common name, synonyms : Antimony trisulfide

Ingredient name: Antimony (III) sulfide

content(%): 95.0 <

Chemical formula: S_3Sb_2

Chemicals No, Japan: 1-567

CAS No.: 1345-04-6

MW: 339.72

HAZCODE_EU: 4_H332; 4_H302; 2_H411 (as antimony compounds)

ECNO: 215-713-4

4. First-aid measures

General procedures

Call a POISON CENTRE or doctor/physician if you feel unwell.

IF INHALED

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES :

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

The product is non-flammable.

Specific hazards arising from the chemical

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may cause pollution.

Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

Wear cold insulating gloves/face shield/eye protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Avoid release to the rivers, lakes, ocean, groundwater.

Methods and materials for neutralization, containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Preventive measures for secondary accident

Collect spillage.

7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume/gas/mist/Vapors/spray.

Use personal protective equipment as required.

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Exhaust/ventilator

Exhaust/ventilator should be available.

Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

Avoid breathing dust, vapor, mist, or gas.

Safety Measures/Incompatibility

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Keep container tightly closed.

Keep cool . Protect from sunlight.

Store in well-ventilated place.

8. Exposure controls/personal protection

Control parameters e.g. occupational exposure limit values or biological limit values

Adopted value

ACGIH(1979) TWA: 0.5mg-Sb/m³ (Skin & URT irr)

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Protective equipment

Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA).

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

9. Physical and Chemical Properties

Physical properties

Appearance :Powder

Color :Ash black

odour data N.A.

pH data N.A.

Phase change temperature

Initial Boiling Point/Boiling point :1150°C

Melting point/Freezing point :550°C

Decomposition temperature data N.A.
Flash point data N.A.
Auto-ignition temperature data N.A.
Explosions data N.A.
Vapor pressure data N.A.
Vapor density data N.A.
Specific gravity/Density :4.562
Solubility
Solubility in water :insoluble
Solubility in solvent :Soluble in conc HCl.
n-Octanol /water partition coefficient data N.A.

10. Stability and Reactivity

Stability

Stable under normal storage/handling conditions.

Conditions to avoid

Contact with incompatible materials.

Moisture, Heat.

Incompatible materials

Acids, Oxidizing agents

Hazardous decomposition products

Sulfur oxides, Antimonial oxide.

11. Toxicological Information

Symptoms related to the physical, chemical and toxicological characteristics

Acute toxicity

Oral

rat LD50 >2000mg/kg (IUCAL,2000)

Inhalation toxicity component(s) data

rat LC50(4h) >5.04mg/l (IUCAL,2000)

No Acute toxicity data available

No Irritant properties data available

No Allergic and sensitizing effects data available

No Mutagenic effects data available

No Teratogenic effects data available

Carcinogenic effects

IARC-Gr.3 ; Not Classifiable as a Human Carcinogen.

No Toxicity for reproduction data available

No Aspiration hazard data available

12. Ecological Information

Ecotoxicity

Aquatic toxicity

Toxic to aquatic life with long lasting effects

No Aquatic toxicity data available

No Persistence and degradability data available

No Bioaccumulative potential data available

13. Disposal Considerations

Disposal methods

Avoid release to the environment (– if this is not the intended use).

Dispose of contents/container in accordance with local/national regulation

14. Transport Information

UN No, UN CLASS

UN No :1549

UN CLASS :6.1

PG :III

Proper shipping name :ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S.

ERG GUIDE NO :157

15. Regulatory Information

GHS classification and labelling

Acute Tox. 4 : H302 Harmful if swallowed.

Acute Tox. 4 : H332 Harmful if inhaled

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

US major regulations

TSCA

Antimony (III) sulfide

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (4th ed., 2011), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 17th edit. UN

Classification, labelling and packaging of substances and mixtures (reg.(EC) No 1272/2008)

2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2013 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

Chemical Risk Information Platform (CHRIP)(NITE) <http://www.safe.nite.go.jp/japan/db.html>

GHS Classification Guidance for Enterprises 2013 Revised Edition (August, 2013, METI)

Other information

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own test

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current EU official data