

Material Safety Data Sheet

Antimony(III) chloride

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

1. Product Identifier Antimony(III) chloride; Antimony trichloride

2. Recommended Use Uses for Laboratory and R&D only

3. Information of Supplier SAMCHUN PURE CHEMICAL CO,,LTD

ADDRESS; (Mogok-dong) 117, Sandan-ro 16Beon-gil, Pyeongtaek-si,

Gyeonggi-do, Korea

Emergency Phone; 82-31-668-0700/3 Department; Safety & Environment dep. Web site; http://www.samchun.com

Section 2 - HAZARDS and DANGER IDENTIFICATION

1.GHS Classification Identification Metal corrosive material Category1

Acute toxic(Oral) Category4
Skin Corrosion/Skin Irritation Category2
Serious Eye Damage/Eye Irritation Category2
Carcinogenicity Category2

2. Label and Mark including Precautionary Statement

Label elements

& Uses advised against







•Signal word Warning

H290 May be corrosive to metals

H302 Harmful if swallowed

• Hazard • Danger statement H315 Causes skin irritation

H319 Causes serious eye irritation H351 Suspected of causing cancer

•Precautionary statement

Precaution P234 Keep only in original container

P264 Wash ... thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood.

Measures P390 Absorb spillage to prevent material damage.

P330 Rinse mouth.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P321 Specific treatment (see Seciton 4. on this label). P302+P352 IF ON SKIN: Wash with plenty of water

P332+P313 If skin irritation occurs: Get medical advice/attention.

Measures P362+P364 Take off contaminated clothing and wash before reuse

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists: Get medical advice/attention. P308+P313 IF exposed: Call a POISON CENTER or doctor/physician

P406 Store in corrosive resistant/... container with a resistant inner liner

Storage P405 Store locked up

Dispose P501 Dispose of contents/container under related law and regulations

3. Other Hazard-Risk which are not included in the classification criteria

NFPA index(0~4steps): Health=3, Fire=0, Reaction=1

Section 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	Other Name	CAS No.	Content (%)
Antimony(III) chloride	Antimony trichloride	10025 01 0	100
	Antimonous chloride	10025-91-9	

Section 4 - FIRST AID MEASURES

1. Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at

least 15minutes, Immediate medical attention is required.

2. Skin Contact Take off contaminated cloths and shoes immediately, wash with plenty

Of water and soap for at least 15minutes.

3. Inhalation Move to fresh air immediately, if breathing is difficult, induce artificial

respiration and immediate medical treatment is required. Do not induce vomiting and Call a physician immediately.

5. Immediate medical attention and

Notes for physician

Let physician aware material and take protection measures.

Section 5 - FIRE-FIGHT MEASURES

1. Suitable extinguish media Powder, carbon dioxide, water spray, foam extinguisher

Unsuitable Extinguishing Media: Non-described

2. Special hazards arising from

the substance

4. Ingestion

Thermal decomposition products: chlorine, antimony oxide

3. Special protective equipment and Precautions for fire-fighters

Move a container away from fire place, available not being dangerous Cool the container with water spray for long time, after extinguishing No direct contact with material by water. In case of big fire, mass watering in fine spray and decrease vapor. Spray in safety distance, avoid inhaling of material-itself and burnings, position in opposite wind

and escape low area.

Section 6 - ACCIDENTIAL RELEASE MEASURES

1.Personal precautions and Emergency procedures2. Environmental precautions Don't touch leakages and avoid inhale and skin contact, ventilate and use air respiratory in closed room, remove ignition source.

Minimize leak/spill, collect and keep leak/spill in container

3. Methods and material for containment and cleaning up

Remove residue with high-efficient cleaner

Section 7 - HANDING AND STORAGE

1. Precautions for safe Handling Skin contact, inhalation of vapors and prevent intrusion to the eye, all

containers will be grounded.

2. Conditions for safe storage Keep container tightly closed in a dry, cool and well-ventilated place.

Keep away from incompatible materials. Avoid contact with light.

Section 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

1.Occupational exposure limit, biological exposure limit

National law of Safety management of

Industrial Safety and Health Act

TWA: 0.5mg / m3 antimony and its compounds

2. Appropriate Check conditions of exposure criteria, operation local ventilation during work

Engineering controls

3. Personal protective equipment

•Respiratory protection Because it is concerned about the harmfulness of human body due to chemical

substances, it is recommended to wear respiratory protective equipment with dust mask or dust filter in consideration of physical and chemical characteristics during

handling.

Respiratory protection should be certified by the Health and Safety Authority. If this affects the life or health concerns or other unknown concentrations, depending on the work environment should wear supplied-air respirator, air

respirator

Eye-protection Wear safety goggles for handling chemicals as they may cause human health

hazards due to chemicals.

Install eye wash facilities and emergency eyewash stations near chemical handling

sites.

•Hand protection Wear safety gloves for handling chemicals as they may cause human health

hazards.

Skin and body proticion

Wear chemical protective clothing when handling, as it is likely to harm human

health due to chemicals

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

1.Physical state and color	Solid(Colorless White)	or	2.Odor	Irritating odor
3.threshold	N/A		4. pH	N/A
5.Melting/Freezing point	73℃		6.Boiling point/range	223℃
7. Flashing point	N/A		8. Evaporation speed	N/A
9. Flammability(solid,gas)	N/A		10. Flash or Explosion limit upper / lower	N/A
11. Vapor pressure	133Pa(49°C)		12. Solubility	1(25°C, g/10.1ml)
13. Vapor density	7.9		14.Gravity	3.14
15. n-octanol-water	N/A		16. Self ignition temp(°C)	N/A
Partition coefficient			-	
17. Cracking temp(℃)	45.19(kJ/mol)		18. Viscosity	1.66
19. Molecular Weight	228.11			

Section 10 - STABILITY AND REACTIVITY

1.Chemical stability and Stable under normal temp. and pressure

Possibility of Hazardous

Reactions

May explode if heated

2. Conditions to Avoid Avoid heat, sparks, flames and other sources of ignition.

3. Incompatible Materials Metals, alkali metals, strong oxidizing agents, strong acids, potassium, sodium

4. Hazardous Thermal decomposition products: chlorine, antimony oxide

Decomposition Products

Section 11 - TOXICOLOGICAL INFORMAION

1. Information on the likely routes of exposure.

N/A

2. Health hazard information

•Acute toxic Oral : LD50 525mg/kg Rat

Skin: N/A Inhalation: N/A Serious skin corrosive / irritation
 Serious eye damage / irritation
 Causes skin irritation
 Causes eye irritation

∘Respiratory sensitization N/A ∘Skin sensitization N/A

• Carcinogenicity IARC : 2B

• Germ cell Mutagenicity In vitro mammalian chromosome abnormality test results

Positive with or without metabolic activity

Micronucleus test results using mammalian erythrocytes in vivo No statistically significant increase was observed in acute or

repeated dose trials

• Reproductive toxic N/A

Specific target organ toxicity

(single exposure)

Specific target organ toxicity

(repeated exposure)

Aspiration hazard

N/A

N/A

N/A

Section 12 - ECOLOGICAL INFORMATION

1.Acquatic and Fish toxicity: N/A

Terrestrial eco toxicity Invertebrate toxicity : N/A

Sea algae : N/A

2.Persistence and degradability Persistence : N/A Degradability : N/A
3.Bioaccumulative potential Concentrations : N/A

Bioaccumulative : N/A

N/A

4.Mobility in soil N/A **5.Other adverse effects** N/A

Section 13 - Disposable considerations

1.Waste methods Dispose in accordance with local regulations.

2.Waste warning Isolate waste away from prohibitive mixture substance.

Section 14 - TRANSPORT INFORMATION

1. UN No. 1733

2.Proper shipping Name Antimony(III) chloride

3.Hazard class 8
4.Packing group || 5.Marine pollutnat N/A

6.Particular safety Fire emergency : F-A

Measures for transportation Emergency measures RELEASE : S-B

Section 15 - REGULATARY INFORMATION

1.Occupation safety and health actsTest material of working environment (Test period; 6months)

Hazardous material of administration objective

Special diagnosis material of health (Diagnosis period;

12months)

Standard material of exposure

2. Chemical Substances Control Act

3. National law of Safety management of

hazardous material

Toxic

Non-described

4. National law of management of Wastes

5.Other domestic and foreign law

Designated Waste, Toxic Waste

US Management Information (CERCLA Regulation): 453.599kg

(1000lb)

EU Classification Information (Fixed Classification Result): Skin

Corr. 1B Aquatic Chronic 2

EU Classification Information (Hazard Statements): H314 H411

Section 16 - OTHER INFORMATION

1. Material source A chemical information MSDS Safety and Health Agency

National Institute of Environmental Research Chemical Information Systems

Korea Industrial Technology National Fire Hazardous Materials Information System

1. The 1st edition 2002.07.30 **2. Revision and** 6 / 2023.10.19

The final revision

. Other references

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