

MATERIAL SAFETY DATA SHEET

ANTIMONY TRICHLORIDE

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

1.1 Product identifiers

Product name : Antimony(III) chloride
CAS-No. : 10025-91-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : NOBLE INTERMEDIATES PVT. LTD
Plot No. A-36, Behind State Bank of India, MIDC, Badlapur MIDC Zone,
Badlapur (E)-421 503, Dist. Thane, Maharashtra, INDIA

1.4 Emergency telephone number

Emergency Phone # : Tel No. +91- 7888024770

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin corrosion (Category 1B),
H314 Chronic aquatic toxicity (Category 2),
H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Danger Hazard statement(s)

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

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

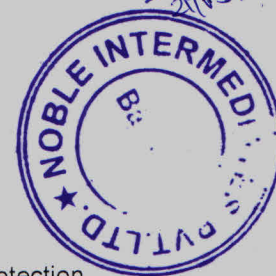
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/ container to an approved waste disposal plant. Supplemental Hazard Statements none



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- 2.3 Other hazards** - This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher

SECTION 3: Composition/information on ingredients

3.1 Substances : Antimony trichloride

Formula : Cl_3Sb
Molecular weight : 228.12 g/mol
CAS-No. : 10025-91-9
EC-No. : 233-047-2

Index-No. : 051-001-00-8 Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Antimony trichloride		
CAS-No. 10025-91-9	Skin Corr. 1B; Aquatic Chronic 2; H314, H411 Concentration limits: $\geq 5\%$; STOT SE 3, H335;	$\leq 100\%$
EC-No. 233-047-2		
Index-No. 051-001-00-8		

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician..

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas, Antimony oxide

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.



- 5.4 Further information
No data available

SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.
- 6.2 **Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- 6.3 **Methods and materials for containment and cleaning up**
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 **Reference to other sections**
For disposal see section 13.

SECTION 7: Handling and storage

- 7.1 **Precautions for safe handling**
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.
- 7.2 **Conditions for safe storage, including any incompatibilities**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Store under inert gas. Reacts violently with water. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials
- 7.3 **Specific end use(s)**
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

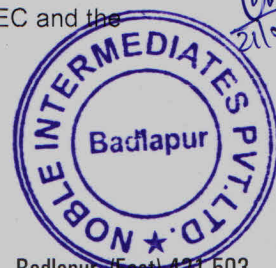
Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)



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Splash contact Material:

Nitrile rubber

Minimum layer thickness: 0.11 mm Break
through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test
method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374,
contact the supplier of the CE approved gloves. This recommendation is advisory only and must be
evaluated by an industrial situation of anticipated use by our customers. It should not be construed as
offering an approval for any specific use scenario.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the
concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator
cartridges as a backup to engineering controls. If full-face supplied air respirator. Use
respirators and components tested and approved under appropriate government standards
such as NIOSH (US) or CEN (EU)

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the
environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|---|---|
| a) Appearance | Form: crystalline Colour: white |
| b) Odor | No data available |
| c) Odor Threshold | No data available |
| d) pH | No data available |
| e) Melting point/freezing point | Melting point/range: 73.4 °C - lit.
283 °C at 1013 hPa |
| f) Initial boiling point and boiling range | |
| g) Flash point | Not applicable |
| h) Evaporation rate | No data available |
| i) Flammability (solid, gas) | No data available |
| j) Upper/lower flammability or explosive limits | No data available |
| k) Vapor pressure | 1 mmHg at 49 °C 0.21 mmHg at 20 °C |
| l) Vapor density | No data available |
| m) Relative density | 3.140 g/cm ³ |
| n) Water solubility | No data available |
| o) Partition coefficient: n- octanol/water | |
| p) Auto-ignition temperature | |
| q) Decomposition temperature | No data available |
| r) Viscosity | No data available |
| s) Explosive properties | No data available |
| t) Oxidizing properties | No data available |

9.2 Other safety information

No data available



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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on

toxicological effects

Acute toxicity

LD50 Oral - Rat - 525 mg/kg(Antimony trichloride)

Skin corrosion/irritation

No data available(Antimony trichloride)

Serious eye damage/eye irritation

No data available(Antimony trichloride)

Respiratory or skin sensitisation

No data available(Antimony trichloride)

Germ cell mutagenicity

Hamster (Antimony trichloride)

Lungs Micronucleus test

Hamster (Antimony trichloride)

Lungs

Sister chromatid exchange

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Specific target organ toxicity - single exposure

No data available(Antimony trichloride)



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Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available(Antimony trichloride)

Additional Information

RTECS: CC4900000

Cough, Shortness of breath, Headache, Nausea, Vomiting(Antimony trichloride) To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Antimony trichloride)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 9 mg/l - 96 h (Antimony trichloride)

Toxicity to daphnia and other aquatic invertebrates LC50 - Daphnia magna (Water flea) - 10.1 mg/l - 48 h(Antimony trichloride)

Toxicity to algae IC50 - Tetrahymena pyriformis, Ciliate - 6 mg/l - 36 h(Antimony trichloride)

12.2 Persistence and degradability Biodegradability Result: -
Not readily biodegradable.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available(Antimony Trichloride)

12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects
Toxic to aquatic life with long lasting effects.
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

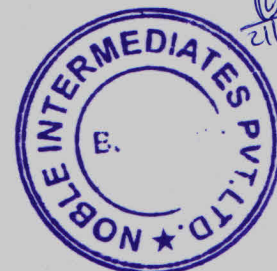
13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.



SECTION 14: Transport information

- 14.1 UN number
ADR/RID: - 1733 IMDG: - 1733 IATA: - 1733
- 14.2 UN proper shipping name
ADR/RID: ANTIMONYTRICHLORIDE
IMDG: ANTIMONY TRICHLORIDE
IATA: Antimony trichloride
- 14.3 Transport hazard class(es)
ADR/RID: - 8 IMDG: - 8 IATA: - 8
- 14.4 Packaging group
ADR/RID: - II IMDG: - II IATA: - II
- 14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
- 14.6 Special precautions for user
No data available

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
- 15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

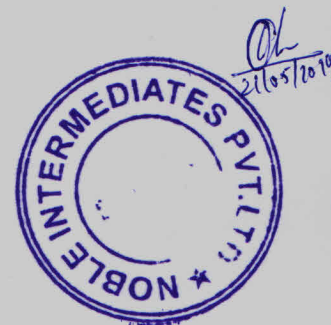
H411 Toxic to aquatic life with long lasting effects.

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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