

SAFETY DATA SHEET ANTIMONY TRI FLUORIDE

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Antimony Trifluoride	
General Use	: Laboratory chemicals, Manufacture of substances	
CAS-No.	: 7783-56-4	
Contact Information	OFFICE : Madras Fluorine Private Ltd No.71, 4 th Main Road Gandhi Nagar, Adyar Chennai 600 020, India E-mail : exim@mplfluorine.com	FACTORY Madras Fluorine Private Ltd Express Highway Manali Chennai – 600 068, India
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SECTION 2 : HAZARDS IDENTIFICATION

Hazard Classification

Health Hazards

Carcinogenicity Category 2

Environmental Hazards

Acute hazards to the aquatic environment Category 3

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: Suspected of causing cancer.
Harmful to aquatic life.

Precautionary Statement

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response: If exposed or concerned: Get medical advice/attention.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENT

Components	Formula	CAS Number	Proportion
Antimony trifluoride	SbF ₃	7783-56-4	<= 100 %

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4 : FIRST AID MEASURES

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation: Move to fresh air. Get medical attention if symptoms persist.

Skin Contact: Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.

Eye contact: Flush thoroughly with water. If irritation occurs, get medical assistance.

Most important symptoms/effects, acute and delayed

Symptoms: May cause irritation to skin, eyes, and respiratory tract.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Symptoms may be delayed.

SECTION 5 : FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

Hydrogen fluoride, Antimony oxide

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

Further information

No data available

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. 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

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.

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.

SECTION 7 : HANDLING AND STORAGE

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Use personal protective equipment as required. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Store in a cool, dry place. Store in a well ventilated place.



SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

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

Complete suit protecting against chemicals, 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 th 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

Appearance :	Form: powder (or) crystals
Odour	pungent
Melting point	235 °C - dec.
Initial boiling point and boiling range	319 °C
Relative density	4.38 g/cm ³ at 25 °C

SECTION 10 : STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

Reacts dangerously with glass.

Incompatible materials

Acids, Oxidizing agents, Perchloric acid/glass

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen fluoride, Antimony oxide
Other decomposition products - No data available In the event of fire: see section 5

SECTION 11 : TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 804 mg/kg(Antimony trifluoride)
Inhalation: Toxic by inhalation.(Antimony trifluoride)

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available



Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Antimony trifluoride)

Reproductive toxicity

No data available(Antimony trifluoride)

Specific target organ toxicity - single exposure

No data available(Antimony trifluoride)

Specific target organ toxicity - repeated exposure

No data available

Additional Information

Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia. gastritis, gastroenteritis, Abdominal pain, retching, Vomiting, Diarrhoea, metabolic acidosis, Liver, Injury(Antimony trifluoride)

SECTION 12 : ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

No data available

Bio accumulative potential

No data available

Mobility in soil

No data available(Antimony trifluoride)

Results of PBT and vPvB assessment

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

Other adverse effects

Toxic to aquatic life.

SECTION 13 : DISPOSAL CONSIDERATIONS

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

DOT

UN Number: UN 1549
UN Proper Shipping Name: Antimony compounds, inorganic, solid, n.o.s.(Antimony Trifluoride)
Transport Hazard Class(es)
Class(es): 6.1
Label(s): 6.1
Packing Group: III
Marine Pollutant: No

IMDG

UN Number: UN 1549
UN Proper Shipping Name: ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S.(Antimony Trifluoride)
Transport Hazard Class(es)
Class(es): 6.1
Label(s): 6.1
EmS No.: F-A, S-A
Packing Group: III
Marine Pollutant: No

IATA

UN Number: UN 1549
Proper Shipping Name: Antimony compound, inorganic, solid, n.o.s.(Antimony Trifluoride)
Transport Hazard Class(es):
Class(es): 6.1
Label(s): 6.1
Marine Pollutant: No
Packing Group: III

SECTION 15 : REGULATORY INFORMATION

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.

Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16 : OTHER INFORMATION

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