

Antimony Penta	afluorid	<u>e</u>	Pricing >
Antimony(V) Flu	Joride		Pricing >
Linear Formula SbF <sub>5</sub>			
Pubchem CID 24557			
MDL Number MFCD		00011219	
EC No.	232-02	1-8	
IUPAC Name	pentafluoro-\lambda5-stibane		
Beilstein/Reaxys No.	N/A		
SMILES	F[Sb](F)(F)(F)F		
Inchl Identifier	InChI=1S/5FH.Sb/h5*1H;/q;;;;;+5/p-5		
Inchl Key	VBVBHWZYQGJZLR-UHFFFAOYSA-I		
Signal Word		Warning	
Hazard Statements		H302 + H332-H411	
Hazard Codes		Xn,N	
Precautionary Statements		P261-P301 + P312 + P330	
Flash Point		Not applicable	
Risk Codes		20/22-51/53	
Safety Statements		61	
RTECS Number		N/A	
Transport Information		UN 1732 6.1(8) / PGII	
WGK Germany		2	
GHS Pictograms		GHS09 Environment C GHS07 Exclamation Point C	

Create Printable PDF

### SAFETY DATA SHEET

Date Accessed: 04/18/2024 Date Revised: 01/15/2022

#### **SECTION 1. IDENTIFICATION**

**Product Identifiers:** All applicable American Elements product codes for CAS #7783-70-2

Relevant identified uses of the substance: Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

### **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Acute aquatic toxicity (Category 2), H401 Chronic aquatic toxicity (Category 2), H411

GHS Label elements, including precautionary statements Pictogram



Signal word: Warning Hazard statement(s) H302 + H332 Harmful if swallowed or if inhaled H411 Toxic to aquatic life with long lasting effects. Precautionary statement(s) P261 Avoid breathing dust/ fume/ gas/ mist/ Vapors/ spray.

P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P301 + P312 + P330IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P304 + P340 + P312 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. P391 Collect spillage. P501 Dispose of contents/ container to an approved waste disposal plant. Hazards not otherwise classified (HNOC) or not covered by GHS - none.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances Synonyms: Antimony pentafluoride Formula: F5Sb Molecular weight: 216.75 g/mol CAS-No.: 7783-70-2 EC-No.: 232-021-8 Index-No.: 051-003-00-9

### **SECTION 4. FIRST AID MEASURES**

Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Flush eyes with water as a precaution. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 Indication of any immediate medical attention and special treatment needed No data available

### SECTION 5. FIREFIGHTING 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 Use personal protective equipment. Avoid breathing Vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8. 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 Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Reference to other sections For disposal see section 13.

### **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of Vapor or mist. For precautions see section 2.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and wellventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Reacts violently with water. Storage class (TRGS 510): Non Combustible Liquids 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

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.

**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 a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a 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

Information on basic physical and chemical properties Appearance Form: liquid Colour: colourless Odor: No data available Odor Threshold: No data available pH: No data available Melting point/freezing point Melting point/range: 7 °C (45 °F) - lit. Initial boiling point and boiling range: 148 - 150 °C (298 - 302 °F) - lit. Flash point: N/A Evaporation rate: No data available Flammability (solid, gas): No data available Upper/lower flammability or explosive limits: No data available Vapor pressure: 13 hPa (10 mmHg) at 25 °C (77 °F) Vapor density: 7.48 - (Air = 1.0)Relative density: 2.993 g/cm3 at 25 °C (77 °F) Water solubility: No data available Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: No data available Explosive properties: No data available Oxidizing properties: No data available Other safety information Relative Vapor density: 7.48 - (Air = 1.0)

### 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 Do not allow water to enter container because of violent reaction. Incompatible materials Strong oxidizing agents Strong bases, Water, Highly toxic fumes Hazardous decomposition products

# SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity No data available Inhalation: No data available Dermal: No data available No data available 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(V) fluoride) NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity No data available No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information **RTECS:** Not available Salivation, Nausea, Abdominal pain, Vomiting, Fever, Rapid respiration, Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia., Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

### **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

### SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Contaminated packaging Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT (US) UN number: 1732 Class: 8 (6.1) Packing group: II Proper shipping name: Antimony pentafluoride Reportable Quantity (RQ): Poison Inhalation Hazard: No IMDG UN number: 1732 Class: 8 (6.1) Packing group: II EMS-No: F-A, S-B Proper shipping name: ANTIMONY PENTAFLUORIDE Marine pollutant: yes IATA UN number:1732 Class: 8 (6.1) Packing group: II Proper shipping name: Antimony pentafluoride

#### SECTION 15. REGULATORY INFORMATION

**SARA 302** Components The following components are subject to reporting levels established by SARA Title III, Section 302: Antimony(V) fluoride CAS-No.: 7783-70-2 Revision Date: 2007-07-01 **SARA 313** Components The following components are subject to reporting levels established by SARA Title III, Section 313: Antimony(V) fluoride CAS-No.: 7783-70-2 Revision Date: 2007-07-01 SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components Antimony(V) fluoride CAS-No.: 7783-70-2 Revision Date: 2007-07-01 Pennsylvania Right To Know Components Antimony(V) fluoride CAS-No.: 7783-70-2 Revision Date: 2007-07-01 New Jersey Right To Know Components Antimony(V) fluoride CAS-No.: 7783-70-2 Revision Date: 2007-07-01 California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). 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. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.