

MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc  
7 Mulliken Way  
Newburyport, MA 01950-4098 U.S.A.  
www.strem.com

Strem Customer Service (978) 499-1600  
CHEMTREC (Emergency Only) (800) 424-9300  
Poison Center (800) 562-8236

**Section 1: Product Identification**

Chemical Name: Sodium hexafluoroarsenate (V),99%  
Product Number: 93-1145  
CAS Registry Number: 12005-86-6  
Formula: NaAsF6  
EINECS Number: 215-608-3  
Chemical Family: halometallate salts  
Synonym: Arsenate(1-), hexafloro-, potassium

**Section 2: Composition and Information on Ingredients**

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	12005-86-6	100%	0.01mg/m3 (as As)	0.01mg/m3 (as As)

**Section 3: Hazards Identification**

Emergency Overview: Harmful if swallowed. May cause arsenic and fluoride poisoning. May cause cancer. Early symptoms include nausea, vomiting, weakness, shock, and coma. Irritating to skin, eyes and respiratory tract.

Primary Routes of Exposure: Contact with skin and eyes. Inhalation of dust.

Eye Contact: Causes irritation and serious eye damage. Effects may not immediately appear.

Skin Contact: Causes ulceration, spotty pigmentation, dermatitis and skin cancer. Soluble fluoride may be corrosive.

Inhalation: Inhalation of dust causes severe irritation to the respiratory tract, and arsenic poisoning

Ingestion: Harmful if swallowed. Ingestion may lead to nausea, vomiting, bloody diarrhea, weakness, low blood pressure, shock, coma, and death.

Acute Health Affects: Irritating to eyes, skin and respiratory tract. Fluoride and arsenic poisoning may cause garlic breath odor, nausea, vomiting, diarrhea, weakness, coma, respiratory failure and cardiovascular collapse. Prolonged exposure to hydrolysable fluorine compounds can cause deterioration of bone and tooth structure.

Chronic Health Affects: Arsenic may cause loss of appetite, dermatitis, diarrhea, kidney and liver damage, nervous disorders, and cancer of the skin, lungs, and liver. may cause cancer.

NTP: Yes  
IARC: Yes  
OSHA: Yes

**SECTION 4: First Aid Measures**

Eye Exposure: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.

Skin Exposure: Wash the affected area with water. Remove contaminated clothes if necessary. Apply calcium gluconate jelly or water soluble calcium salts as antidote. Seek medical assistance.

Inhalation: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

Ingestion: Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

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**SECTION 5: Fire Fighting Measures**

Flash Point: not applicable  
Autoignition Temperature: none  
Explosion Limits: none  
Extinguishing Medium: None. Material is non-flammable.  
Special Fire Fighting Procedures: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.  
Hazardous Combustion and Decomposition Products: If involved in a fire this material may emit corrosive fumes of hydrofluoric acid and toxic compounds of arsenic  
Unusual Fire or Explosion Hazards: No unusual fire or explosion hazards.

**SECTION 6: Accidental Release Measures**

Spill and Leak Procedures: Small spills can be mixed with powdered sodium bicarbonate, lime, or calcium carbonate and swept up. Avoid raising dust. Spillage in areas not adequately ventilated may require an evacuation of area. Emergency response teams will require self-contained breathing apparatus.

**SECTION 7: Handling and Storage**

Handling and Storage: Store in a tightly sealed non-glass container away from moisture.

**SECTION 8: Exposure Controls and Personal Protection**

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.  
Skin Protection: Wear protective clothing and gloves. Consult with glove manufacturer to determine the proper type of glove.  
Ventilation: Solid may form a toxic fine dust. If possible, handle the solid in an efficient fume hood.  
Respirator: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.  
Ventilation: Solid may form a toxic fine dust. If possible, handle the solid in an efficient fume hood.  
Additional Protection: No additional protection required.

**SECTION 9: Physical and Chemical Properties**

Color and Form: white powdr.  
Molecular Weight: 211.9  
Melting Point: no data  
Boiling Point: no data  
Vapor Pressure: no data  
Specific Gravity: no data  
Odor: none  
Solubility in Water: Soluble

**SECTION 10: Stability and Reactivity**

Stability: air and moisture stable  
Hazardous Polymerization: no hazardous polymerization  
Conditions to Avoid: none  
Incompatibility: active metals and strong mineral acids  
Decomposition Products: Hydrofluoric acid, metal fluorides and metal oxyfluorides

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**SECTION 11: Toxicological Information**

RTECS Data: Intravenous (mouse); LD50: 56 mg/kg.  
Carcinogenic Effects: Carcinogen (as As)  
Mutagenic Effects: no data  
Tetratogenic Effects: no data

**SECTION 12: Ecological Information**

Ecological Information: Avoid release to the environment. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**SECTION 13: Disposal Considerations**

Disposal: Dispose of according to local, state and federal regulations.

**SECTION 14: Transportation**

Shipping Name (CFR): Non-hazardous  
Hazard Class (CFR): NA  
Additional Hazard Class (CFR): NA  
Packaging Group (CFR): NA  
UN ID Number (CFR): NA  
Shipping Name (IATA): Non-hazardous  
Hazard Class (IATA): NA  
Additional Hazard Class (IATA): NA  
Packaging Group (IATA): NA  
UN ID Number (IATA): NA

**SECTION 15: Regulatory Information**

TSCA: Not listed in the TSCA inventory.  
SARA (Title 313): Title compound: See Category Code N020 for reporting.  
Second Ingredient: none  
Third Ingredient: none

**SECTION 16: Other Information**

Disclaimer: The information herein is believed to be accurate and reliable as of the date compiled. However, Strem Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.  
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