OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

AMMONIUM BIFLUORIDE

(Pure)

MSDS CAS: 1341-49-7

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: AMMONIUM BIFLUORIDE
CAS#: 1341-49-7
C.I. No.: Not applicable.
Synonym:
Chemical Name:
Chemical Formula: $NH_4F.HF$

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Ammonium bifluoride	1341-49-7	100

Toxicological Data on Ingredients: Ammonium bifluoride LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects: **Extremely hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (corrosive). Slightly hazardous in case of skin contact (permeator). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.**

Potential Chronic Health Effects: **CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.**

Section 4: First Aid Measures

Eye Contact: **Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.**

Skin Contact: **In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.**

Serious Skin Contact: **Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.**

Inhalation: **If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.**

Serious Inhalation: **Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.**

Section 4: First Aid Measures (Continued

Ingestion: **Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.**

Serious Ingestion: **Not available.**

Section 5: Fire and Explosion Data

Flammability of the Product: **Non-flammable.**
Auto-Ignition Temperature: **Not applicable.**
Flash Points: **Not applicable.**
Flammable Limits: **Not applicable.**
Products of Combustion: **Not available.**
Fire Hazards in Presence of Various Substances: **Not applicable.**
Explosion Hazards in Presence of Various Substances: **Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.**
Fire Fighting Media and Instructions: **Not applicable.**
Special Remarks on Fire Hazards: **Not available.**
Special Remarks on Explosion Hazards: **Not available.**

Section 6: Accidental Release Measures

Small Spill: **Use appropriate tools to put the spilled solid in a convenient waste disposal container.**

Large Spill: **Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.**

Section 7: Handling and Storage

Precautions: **Keep container dry. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as acids. May corrode glass. Store in an appropriate container.**

Storage: **Keep container tightly closed. Keep container in a cool, well-ventilated area.**

Section 8: Exposure Controls/Personal Protection

Engineering Controls: **Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.**

Personal Protection: **Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.**

Personal Protection in Case of a Large Spill: **Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.**

Exposure Limits: **TWA: 2.5 Consult local authorities for acceptable exposure limits.**

Section 9: Physical and Chemical Properties

Physical state and appearance: **Solid.**

Odor	**: Not available.**
Taste	**: Not available.**
Molecular Weight	**: 57.05 g/mole**
Color	**: Not available.**
pH (1% soln/water)	**: Not available.**
Boiling Point	**: Decomposes.**
Melting Point	**: 125.6°C (258.1°F)**
Flash Point	**: Not available.**
Critical Temperature	**: Not available.**
Specific Gravity	**: 1.5 (Water = 1)**
Vapor Pressure	**: Not applicable**

Section 9: Physical and Chemical Properties

Vapor Density : Not available.
Volatility : Not available.
Odor Threshold : Not available.
Water/Oil Dist. Coeff. : Not available
Ionicity (in Water) : Not available.
Dispersion Properties : See solubility in water.
Solubility : Easily soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.
Instability Temperature: Not available.
Conditions of Instability: Not available.
Incompatibility with various substances: Reactive with acids.
Corrosivity: Corrosive in presence of glass.
Special Remarks on Reactivity: Not available.
Special Remarks on Corrosivity: Not available.
Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.
Toxicity to Animals: LD50: Not available. LC50: Not available.
Chronic Effects on Humans: Causes damage to the following organs: lungs, mucous membranes.
Other Toxic Effects on Humans: Extremely hazardous in case of skin contact (irritant), of ingestion, . Very hazardous in case of skin contact (corrosive). Hazardous in case of eye contact (corrosive), of inhalation (lung corrosive). Slightly hazardous in case of skin contact (permeator).
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation: The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : AMMONIUM HYDROGENDIFLUORIDE, SOLID
UN N° : 1727
H.I. nr : 80
ADR – Class : 8

Sea transport (IMDG) [English only]

Proper shipping name : AMMONIUM HYDROGENDIFLUORIDE, SOLID
UN N°: 1727
IMO-IMDG - Class or division: 8: Corrosive substance.
IMO-IMDG - Packing group: I

Air transport (ICAO-IATA) [English only]

Proper shipping name : AMMONIUM HYDROGENDIFLUORIDE, SOLID
UN N° : 1727
IATA - Class or division: 8: Corrosive substance.
IATA - Packing group : I

Section 15: Other Regulatory Information

Federal and State Regulations: **Pennsylvania RTK: Ammonium bifluoride Massachusetts RTK: Ammonium bifluoride TSCA 8(b) inventory: Ammonium bifluoride CERCLA: Hazardous Substances. Ammonium bifluoride**
Other Regulations: **OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).**

Other Classifications:
WHMIS (Canada): **CLASS E: Corrosive solid.**
DSCL (EEC): **R34- Causes burns.**
HMIS (U.S.A.):
Health Hazard: **3**
Fire Hazard: **0**
Reactivity: **0**
Personal Protection: **j**
National Fire Protection Association (U.S.A.):
Health: **3**
Flammability: **0**
Reactivity: **0**
Specific hazard:

Protective Equipment: **Gloves. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.**

Section 16 - Additional Information

References: **Not available.**

Other Special Considerations: **Not available.**

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