

M.S.D.S. Of Ammonium Fluoborate

Triveni Chemicals

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Ammonium fluoborate

Section 1 - Chemical Product and Company Identification

CAS#: 13826-83-0

Ammonium fluoborate

Synonym: Ammonium tetrafluoroborate

Chemical Formula: NH₄BF₄

Section 2 - Composition and Information on Ingredients

Composition: Name CAS # % by Weight

Ammonium fluoborate 13826-83-0 100

Section 3 - Hazards Identification

Potential Acute Health Effects:Extremely hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Corrosive to eyes and skin. 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:Extremely hazardous in case of eye contact (irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (irritant).

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. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

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.

Section 5 - Fire and Explosion Data

Flammability of the Product: Non-flammable.

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.

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. 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.

Section 9 - Physical and Chemical Properties

Physical state and appearance: Solid. (Crystalline solid.)

Molecular Weight: 104.84 g/mole

Color: Colorless to light yellow.

Boiling Point: Decomposes.

Melting Point: 230°C (446°F)

Specific Gravity: 1.871 (Water = 1)

Dispersion Properties: See solubility in water, methanol.

Solubility: Soluble in cold water.

Partially soluble in methanol.

Section 10 - Stability and Reactivity Data

Stability: The product is stable.

Corrosivity: Corrosive in presence of glass.

Section 11 - Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

Other Toxic Effects on Humans: Extremely hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Section 12 - Ecological Information

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.

Section 13 - Disposal Considerations

Waste Disposal:

Section 14 - Transport Information

DOT Classification: Class 8: Corrosive material

Identification: : Ammonium Fluoborate UNNA: UN1759 PG: II

Section 15 - Other Regulatory Information

Federal and State Regulations: Pennsylvania RTK: Ammonium fluoborate

Massachusetts RTK: Ammonium fluoborate

CERCLA: Hazardous substances.: Ammonium fluoborate

Other Classifications: WHMIS (Canada): CLASS E: Corrosive solid.

R38- Irritating to skin.

Health: 3

Flammability: 0

Reactivity: 0

Section 16 - Other Information

References: Not available.

Other Special Considerations: Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.