



A Division of Appropriate Chemical International Ltd.

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## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: Ammonium Bifluoride**

**GEN-AM2000**

### SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

**MANUFACTURER:** Same as above  
**PREPARED BY:** Production Department  
**VERSION DATE:** 01-Jan-14  
**TELEPHONE NO.:** (519) 686-6882  
**EMERGENCY PHONE NO.:** (800) 996-6666  
**CHEMICAL FAMILY:** Not Available      **CHEMICAL FORMULA:** Not Applicable  
**MOLECULAR WEIGHT:** Not Applicable      **MATERIAL USE:** Please Refer to technical literature  
**SYNONYMS:**

### SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Ammonium Bifluoride	60-100	1341-49-7	N.Av.	N.Av.	N.Av.
Ammonium Fluoride	1-5	N.Av.	N.Av.	N.Av.	N.Av.

### SECTION 03: HAZARD IDENTIFICATION

#### ROUTE OF ENTRY

**Eyes:** Causes eye irritation. Resulting in stinging, reddening, tearing and swelling. May cause eye burns. May cause permanent eye damage.

**Skin:** May cause skin irritation. May cause skin burns. May cause permanent damage.

**Inhalation:** May cause irritation and burns to the respiratory tract, symptoms may include coughing, sore throat and labored breathing. Irritation and burning effects may not appear immediately. May produce signs and symptoms of toxicity similar to those described for swallowing.

**Ingestion:** May cause abdominal discomfort, nausea, vomiting and diarrhea. Symptoms may also include weakness, tremors, shallow respiration, carpopedal spasm, convulsions and coma. May cause brain and kidney damage. Affects heart and circulatory system. Death may be caused by respiratory paralysis. Lethal dose estimated at between 1 teaspoonful and 1 oz.

### SECTION 04: FIRSTAID

**Skin Contact:** For skin contact, wipe away excess material with dry towel. Flush skin with plenty of water for at least 15 minutes. Apply Calcium Gluconate gel to the affected area, rub in until locally free of pain and then continue for 15 minutes. If possible apply a dressing soaked in 20% calcium gluconate solution. If burns cover large areas, the patient should be completely bathed in at least 1% calcium gluconate solution. Obtain immediate medical attention.

**Eye Contact:** Flush eyes with gently flowing water for at least 15 minutes or until the chemical is removed, while holding the eyelid(s) open. Take care not to rinse the contaminated water into the unaffected eye or

**Inhalation, Acute**

face. Seek immediate medical attention. Seek immediate medical attention.

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

**Notes to physician:** N.Av.

#### SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

<b>FLAMMABLE?</b>	No
<b>IF YES, UNDER WHICH CONDITIONS?</b>	
<b>FLASH POINT (TCC) (C):</b>	Not Available
<b>FLAMMABLE LIMITS:</b>	<b>LEL(% BY VOL.):</b> Not Available <b>UEL(% BY VOL.):</b> Not Available
<b>AUTO IGNITION TEMPERATURE (C)</b>	Not Available
<b>EXTINGUISHING MEDIA</b>	Not flammable. Use extinguishing media appropriate for surrounding fire.
<b>SPECIAL PROCEDURES:</b>	: Fire fighters should wear full protective clothing, including self-contained breathing equipment.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Not Available
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b>	Not Available
<b>SENSITIVITY TO STATIC DISCHARGE</b>	Not Available
<b>SENSITIVITY TO MECHANICAL IMPACT:</b>	Not Available

#### SECTION 06: ACCIDENTAL RELEASE MEASURES

**Leak and Spill Procedure:** Ventilate area. Isolate hazard area and restrict access. Scoop up or vacuum up and place in an appropriate closed container. Avoid raising dust. Flush area with water to remove trace residue.

#### SECTION 07: HANDLING AND STORAGE

##### Handling Procedures and Storage Requirements

For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment. Store in a cool, dry, well ventilated area. Do not store in metal containers, as contact with moisture and metal at the same time may release flammable hydrogen gas. Isolate from acids, alkali and other incompatible substances. Do not store above 50 °C/122 °F

#### SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

<b>GLOVES/TYPE:</b>	Appropriate chemical resistant gloves should be worn. Neoprene gloves. Rubber gloves. Viton gloves.
<b>RESPIRATOR/TYPE:</b>	If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. <b>WARNING:</b> Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
<b>EYE/TYPE:</b>	Chemical goggles; also wear a face shield if splashing hazard exists.
<b>OTHER/TYPE:</b>	Ensure that eyewash stations and safety showers are proximal to the work-station location
<b>ENGINEERING CONTROL</b>	In confined areas, local and general ventilation should be provided to maintain airborne concentrations below permissible exposure limits. Localized ventilation should be used to control dust levels.

#### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE/APPEARANCE:</b>	Solid Flakes	<b>ODOUR THRESHOLD:</b>	N. Av.
<b>ODOUR:</b>	Pungent		

**VAPOUR PRESSURE (mm Hg @ 20C):** <1 mbar @20  
**EVAPORATION RATE (Ether = 1):** N. Av.  
**BOILING POINT (C):** 230C/446F  
**Ph (% SOLUTION):** 3.5  
**SOLUBILITY IN WATER (% W/W)** N. Av.

**VAPOUR DENSITY (Air=1):** N. Av.  
**SPECIFIC GRAVITY:** 1.51  
**FREEZING POINT (C)** 120C/248F  
**% VOLATILE (WT):** 0

#### SECTION 10: STABILITY AND REACTIVITY

**CHEMICALLY STABLE?** Stable

**IF NO, UNDER WHICH CONDITIONS?**

**INCOMPATIBILITY WITH OTHER SUBSTANCES** Yes

**IF YES, WITH WHICH ONES:** Acids or alkalis. When combined with water, wil corrode glass, cement and most metals.

**SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS**

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen fluoride. Oxides of nitrogen. Ammonia.

#### SECTION 11: TOXICOLOGICAL INFORMATION

**EXPOSURE LIMIT OF MATERIAL**

**LC 50 OF MATERIAL, SPECIES AND ROUTE**

**LD 50 OF MATERIAL, SPECIES AND ROUTE**

**CARCINOGENICITY OF MATERIAL**

**REPRODUCTIVE EFFECTS:**

**IRRITANCY OF MATERIAL**

**SENSITIZING CAPABILITY OF MATERIAL**

**SYNERGISTIC MATERIALS**

#### SECTION 12: ECOLOGICAL INFORMATION

**AQUATIC TOXICITY**

#### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Disposal of al wastes must be done in accordance with municipal, provincial and federal regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

#### SECTION 14: TRANSPORT INFORMATION

**TDG CLASSIFICATION** Class 8, Ammonium Hydrogen FlourideSolid

**UN NUMBER:** 1727

**PACKING GROUP:** II

**Special Provisions for Transport**

#### SECTION 15: REGULATORY INFORMATION

**WHMIS CLASSIFICATION** AMMONIUM HYDROGENDIFLUORIDE, SOLID

#### SECTION 16: OTHER INFORMATION

**ABBREVIATIONS USED:** N.Av. = Not Available  
N.App. / N.Ap. = Not Applicable

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**SOURCES:** Supplier MSDS

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