



Material Safety Data Sheet

Ammonium Bifluoride
Part Number: 05F791

Hukill Chemical Corporation
7013 Krick Road
Bedford, OH 44146-4493

Section I: Chemical Product & Company Identification

Manufacturer	Hukill Chemical Corporation 7013 Krick Road Bedford, OH 44146-4493	Emergency Telephone Number	(800) 962-1143		
		Chemtrec's Telephone Number	(800) 424-9300		
		Prepared By	Brian Peebles		
Telephone Number	(440) 232-9400	Date Prepared	November 19, 2001		
Fax Number	(440) 232-9477	HMIS	Health	3	
Web Site	http://www.hukill.com		Flammability	0	
Email	hukill@hukill.com		Reactivity	0	
Synonyms					

Section II: Composition/Information On Ingredients

Hazardous Components	Reportable Under SARA Section 313	CAS Number	OSHA Limits (ppm)			ACGIH TLV (ppm)	%
			PEL	STEL	Ceiling		
Ammonium bifluoride	No	1341-49-7	2.5 *			2.5 *	100
<i>* mg/m³ instead of ppm.</i>							

Section III: Hazardous Identification

Emergency Overview:							
Route(s) of Entry	Inhalation?	Yes	Skin?	Yes	Ingestion?	Yes	
Health Hazards (Acute and Chronic)							
Severe irritation and burns to all tissues. Severe respiratory irritation and paralysis. Fluorosis and death.							
Signs and Symptoms of Exposure							
Severe irritation to any exposed tissues. Respiratory paralysis from breathing dust. Fluorosis from skin contact, indicated by anemia, weight loss, joint stiffness, and possibly death.							
Carcinogenicity	NTP	No	IARC Monographs	No	OSHA Regulated?	No	
Comments	May contain detectible amounts of a material known in California to cause cancer.						

Section IV: First Aid

Eye Contact	
Skin Contact	
Inhalation	
Ingestion	



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Section V: Fire Fighting Measures

Flash Point (method used)	Flammable Limits	LEL	UEL
None		N/A	N/A
Extinguishing Media	Noncombustible. Use media appropriate for surrounding fire.		
Special Fire Fighting Procedures			
Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
Unusual Fire and Explosion Hazards			
Fumes from decomposition are extremely corrosive and toxic.			

Section VI: Accidental Release Measures

Steps to Be Taken in Case Material is Released or Spilled
Sweep up material and place in a clean container. Avoid spreading dust. Flush the area with water and neutralize with mild alkali like lime or soda ash. Consult the proper authorities before discharge into sewers.
Waste Disposal Method
Disposal must be in accordance with federal, state and local regulations.

Section VII: Handling And Storage

Precautions to Be Taken in Handling and Storing
Store in a cool, dry place.
Other Precautions
Avoid contact with all tissues.

Section VIII: Exposure Controls, Personal Protection

Respiratory Protection (Specify)	Dust mask is usually sufficient to protect against airborne dust. Use supplied-air or SCBA if other circumstances require.		
Ventilation	Local Exhaust	Sufficient to keep ambient dust concentration below PEL.	
	Mechanical (General)	General or local	
	Special	None	Other
Protective Gloves	Chemical resistant.		
Eye Protection	Safety glasses with side shields or goggles.		
Other Protective Clothing or Equipment			
Cover any skin that could be exposed.			
Work/Hygienic Practices			
Wash hands thoroughly after handling and before eating, smoking, or using the toilet.			



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Section IX: Physical And Chemical Properties

Boiling Point	N/A	Specific Gravity (H2O = 1)	1.5
Vapor Pressure (mm Hg)	N/A	Melting Point	decomposes 240C
Vapor Density (Air = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility In Water	Complete		
Appearance and Odor	State		Solid
Pungent off-white crystals.			

Section X: Stability And Reactivity

Stability	Conditions to Avoid	May decompose if heated.
Stable		
Incompatibility (Material to Avoid)	Strong acids and bases, glass and silicon-based products	
Hazardous Decomposition of Byproducts	Hydrogen fluoride, carbon dioxide when neutralized.	
Hazardous Polymerization	Conditions to Avoid	None.
Will not occur		

DOT Shipping Name: Ammonium Hydrogendifluoride, Solid

Hazard Class: 8

UN Number: UN1727

PGII

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