

# Material Safety Data Sheet Ammonium Tetrafluoroborate, 97+%

### MSDS# 98586

	Section 1 - Chemical Product and	Company Identification	
MSDS Name:	Ammonium Tetrafluoroborate, 97+%		
Catalog Numbers:	AC310960000, AC310961000, AC310965000		
Synonyms:	Ammonium Borofluoride; Ammonium Fluoroborate		
Company Identification:		Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium	
Company Identification: (USA)		Acros Organics One Reagent Lane Fair Lawn, NJ 07410	
For information in the US, call:		800-ACROS-01	
For information in Europe, call:		+32 14 57 52 11	
Emergency Number, Europe:		+32 14 57 52 99	
Emergency Number US:		201-796-7100	
CHEMTREC Phone Number, N	US:	800-424-9300	
CHEMTREC Phone Number, I	Europe:	703-527-3887	

Section 2 - Composition, Information on Ingredients

CAS#:	13826-83-0
Chemical Name:	Ammonium Tetrafluoroborate
%:	97+
EINECS#:	237-531-4

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Hazard Symbols:



Risk Phrases:

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Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Caution! Corrosive. Causes burns by all exposure routes. Target Organs: Respiratory system, eyes, skin. Potential Health Effects

Eye:	Causes eye burns.			
Skin:	Causes skin burns.			
Ingestion:	Causes gastrointestinal tract burns.			
Inhalation:	Causes chemical burns to the respiratory tract.			
Chronic:	No information found.			
Section 4 - First Aid Measures				
Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.			
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated			

	cloth	ning and shoes.		
Ingestion:	Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.			
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.			
Notes to Physician:				
		Section 5 - Fire Fighting Measures		
General Inform	ation:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.		
Extinguishing Media:		Use agent most appropriate to extinguish fire.		
Autoignition Temperature:				
		Not available		
Explosion Limits: Lower:				
Explosion Limits: Upper: Not available				
NFPA Rating: health: 3; flammability: 0; instability: 1;				
Section 6 - Accidental Release Measures				
General Information:	U	se proper personal protective equipment as indicated in Section 8.		
Spills/Leaks:		weep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid enerating dusty conditions.		
Section 7 - Handling and Storage				
Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.				

Storage: Store in a cool, dry place. Store in a tightly closed container.

#### Section 8 - Exposure Controls, Personal Protection

++   Chemical Name	ACGIH	NIOSH	++  OSHA - Final PELs
Ammonium Tetrafluor    oborate	none listed	none listed	none listed

OSHA Vacated PELs: Ammonium Tetrafluoroborate: None listed

**Engineering Controls:** 

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure** Limits

Personal Protective Equipment

- Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Skin: Wear appropriate protective gloves to prevent skin exposure.
- Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a

Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystals Color: white Odor: Not available pH: Not available

	Vapor Pressure: 0.001 lb/in2 at 100 deg C
	Vapor Density: Not available
	Evaporation Rate: Not available
	Viscosity: Not available
	Boiling Point: Not available
	Freezing/Melting Point: 446 deg C ( 834.80°F)
	Decomposition Temperature: Not available
	Solubility in water: soluable @97g/100cc H2O at 100°C
	Specific Gravity/Density: 1.871@156°C
	Molecular Formula: BF4H4N
	Molecular Weight: 104.8383
	Section 10 - Stability and Reactivity
Chemical Stability:	Moisture sensitive.
Conditions to Avoid:	Incompatible materials, dust generation, moisture.
Incompatibilities with Other Materials	Strong oxidizing agents, strong acids, strong bases, aluminum, glass.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, nitrogen oxides (NOx) and ammonia (NH3), hydrogen fluoride gas, boron oxides.
Hazardous Polymerization	Has not been reported.
	Section 11 - Toxicological Information
RTECS#: CAS# 1382	6-83-0: BQ6100000
LD50/LC50: RTECS: Not	available.
Carcinogenicity: Ammonium	Tetrafluoroborate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: No informati	on found.
Not available	Section 12 - Ecological Information
Not available	Section 13 - Disposal Considerations
Dispose of in a manner consist	tent with federal, state, and local regulations.
	Section 14 - Transport Information
US DOT	-
	SOLID, ACIDIC, INORGANIC, N.O.S.
Hazard Class: 8 UN Number: UN3260	
Packing Group: III	
Canada TDG	
Shipping Name: Not available	
Hazard Class: UN Number:	
Packing Group:	
U. C. M.	
USA RQ: CAS# 13826-83-0	): 5000 lb final RQ; 2270 kg final RQ
	Section 15 - Regulatory Information
European/International Regula	tions
European Labeling in Ac	cordance with EC Directives
Hazard Symbols: C	
Risk Phrases:	
R 34 Causes b	purns.
Safety Phrases:	
-	f contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 13826-83-0: Not available

Canada

CAS# 13826-83-0 is listed on Canada's DSL List

Canadian WHMIS Classifications: E, D1B, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 13826-83-0 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 13826-83-0 is listed on the TSCA Inventory.

## Section 16 - Other Information MSDS Creation Date: 12/29/1997 Revision #5 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 the company 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 the company has been advised of the possibility of such damages.

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