



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION AMMONIUM BIFLUORIDE

NAME: TYPE:

PRODUCT #

Fluoride additive

009FG

FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN

EMERGENCY RESPONSE INFORMATION:

CHEMTEL Company Offices: PREPARED DATE:

(800) 255-3924 512-365-6838 01-13-22 24-Hour Service Weekdays

SECTION 2: HAZARDS IDENTIFICATION				
GHS Classification	Serious Eye Damage/Eye Irritation	Category 3 Category 1B Category 3	H301 H314 H402	
Signal Word	DANGER			
Symbol				
Hazard Statements	H301 Toxic if swallowed.H314 Causes severe skin burns andH402 Harmful to aquatic life.	d eye damage.		
Precautionary Statements	POISON CENTER or doctor/physician P303+P361+P353 IF ON SK Rinse skin with water/shower. P304+P340 IF INHALED: Remo- breathing. P305+P351+P338 IF IN EYE lenses, if present and easy to do. Contin P321 Specific treatment (see Sectio P363 Wash contaminated clothing b P405 Store locked up.	xposed areas thorn nen using this produ- nent. stive clothing/eye p LOWED: Rinse rr KIN (or hair): Ren ove victim to fres ES: Rinse cautiou nue rinsing. on 4). pefore reuse.	uct.	

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT Ammonium bifluoride SYNONYM None. <u>CAS NO.</u> 1341-49-9 <u>% BY WEIGHT</u> 97 – 100

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASUR	RES:
EYES:	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Get immediate medical attention. If physician is not immediately available, continue flushing with water. Do not use chemical antidote.
SKIN:	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician. Remove contaminated clothing and shoes. As soon as possible apply 2.5% calcium gluconate gel to all affected skin areas. The gel should be massaged into the affected skin by personnel wearing protective gloves to prevent skin contamination during first aid. Do not put contaminated clothing and shoes back on. Discard shoes if saturated with this product. Wash clothing thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.
INGESTION:	Do NOT induce vomiting. Give water. Give milk of magnesia. Never give anything by mouth if the person is unconscious or if having convulsions. Keep warm, quiet. Call medical attention immediately.
INHALATION:	If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped give artificial respiration. Keep person warm, quiet and get medical attention.
PRIMARY ROUTE(S) OF ENTRY:	Inhalation, skin.
MOST IMPORTANT SYMPTOMS / EFF	ECTS, ACUTE AND DELAYED:
GENERAL:	Causes burns.
EYE CONTACT:	Causes burns.
SKIN CONTACT:	Causes burns.
INGESTION:	Harmful if swallowed.
INHALATION:	No hazard in normal industrial use.
CHRONIC SYMPTOMS:	None expected under normal conditions of use.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

If you experience any of the symptoms / effects listed above seek medical advice.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Use water fog to extinguish fires that this product is involved with.

SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Not considered flammable or explosive. Hazardous reactions will not occur under normal conditions.

ADVICE FOR FIRE FIGHTERS:

Wear self-contained breathing apparatus with full face piece operated in positive pressure mode and full body protective clothing. Use water spray to keep containers cool. **Hazardous Combustion Products:** Hydrogen fluoride, ammonia, oxides of nitrogen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Avoid all contact with skin, eyes and clothing. Wear nitrile rubber or neoprene gloves. Goggles and face shield necessary. Wear full protective acid resistant clothing. Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Shovel up solid spills. Dispose with solid waste. If dissolved in water, contain liquid with sand and absorb on inert material. See Waste Disposal Method. Ventilate area. Do not discharge to sewers or waterways without proper treatment.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Wear proper safety equipment when handling this product. Handle in accordance with good industrial hygiene and safety procedures.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:

Normal for acidic materials. Store away from alkalis. Keep container closed when not in use. Always add acids to water; never add water to acids.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION			
EXPOSURE GUIDELINES: CHEMICAL IDENTITY	CAS NO.	OSHA PEL	ACGIH TLV
Ammonium bifluoride	1341-49-7	2.5 mg/M ^{3*}	2.5 mg/M ^{3*}

ENGINEERING CONTROLS:

Use good ventilation. Local exhaust is recommended if TLVs are exceeded.

INDIVIDUAL PROTECTION MEASURES:

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

RESPIRATORY PROTECTION:

In absence of proper environmental control, use NIOSH / MSHA approved inorganic acid vapor respirator for mists where airborne exposure is excessive.

SKIN PROTECTION:

Nitrile rubber, polyvinyl chloride gloves. Rubber apron and boots required. Other equipment as required to avoid contact.

EYE PROTECTION:

Goggles and face shield necessary.

GENERAL HYGIENE CONSIDERATIONS:

Eyewash facility and emergency shower should be in close proximity. Always wash hands after handling any chemical.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Clear flakes.

Not available.

Not determined.

Not determined.

Not available.

Not available.

Not available. Not available.

Not available.

Not available.

Appreciable.

Not available. Not available.

Not available.

Not available.

Not available.

Odorless.

4.5 - 5.0

APPEARANCE: ODOR: **ODOR THRESHOLD:** pH (1oz/gallon): MELTING POINT/FREEZING POINT INITIAL BOILING POINT AND BOILING RANGE FLASH POINT (METHOD USED) **EVAPORATION RATE** FLAMMABILITY (SOLID, GAS) **UPPER/LOWER FLAMMABLE OR EXPLOSIVE LIMIT** VAPOR PRESSURE VAPOR DENSITY SPECIFIC GRAVITY SOLUBILITY IN WATER PARTITION COEFFICIENT: N-OCTANOL/WATER AUTO-IGNITION TEMPERATURE **VISCOSITY, DYNAMIC DECOMPOSITION TEMPERATURE** VISCOSITY

REACTIVITY: CHEMICAL STABILITY: POSSIBILITY OF HAZARDOUS REACTIONS: CONDITIONS TO AVOID: INCOMPATIBLE MATERIALS: HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous reactions will not occur under normal conditions.
Material is stable.
Hazardous polymerization will not occur.
Excessive heat.
Strong alkaline materials and strong organic acids. May be corrosive to metals.
Hydrogen fluoride, ammonia, oxides of nitrogen.

SECTION 11: TOXOLOGICAL INFORMATION

ACUTE TOXICITY:	Not classified		
LD50 AND LC50 DATA:	Not available.		
ROUTES OF EXPOSURE / SYMPTOMS			
EYES:	DANGER! Causes burns.		
SKIN:	DANGER! Causes burns.		
INGESTION:	WARNING! Causes burns.		
INHALATION:	WARNING! May cause na:	sal and respiratory irritation.	
GERM CELL MUTAGENICITY:	Not classified.		
TERATOGENICITY:	Not available.		
CHRONIC EFFECTS /	This material contains no ingredients above de minimus concentrations known or suspected to cause		
CARCINOGENICITY:	cancer.		
SPECIFIC TARGET ORGAN TOXICITY	Not classified.		
(Repeated exposure):	Not classified.		
REPRODUCTIVE TOXICITY:	Not classified.		
SPECIFIC TARGET ORGAN TOXICITY (Single exposure):	Not classified.		
ASPIRATION HAZARD:	Not classified.		
COMPONENT INFORMATION:			
Ammonium bifluoride	LD50 Oral Rat: LD50 Oral Guinea Pig:	60-130 mg/kg 150 mg/kg	

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY COMPONENT INFORMATION	Avoid contaminating waterways.	
Ammonium bifluoride	LC50 Salmo gairdneri 51 mg/L 96hr.	
PERSISTENCE AND DEGRADABILITY:	Not available.	
BIOACCUMULATIVE POTENTIAL:	Not available.	
MOBILITY IN SOIL:	Not available.	
OTHER ADVERSE EFFECTS:	This material contains no hazardous air pollutants (HAPS).	
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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Normal for fluoride containing wastes. May require pH adjustment for neutralization. Dispose in accordance with local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME:	Ammonium hydrogen fluoride
HAZARD CLASS:	8
IDENTIFICATION NUMBER:	UN1727
PACKING GROUP:	II
EMERGENCY RESPONSE GUIDE:	#154

SECTION 15: REGULATORY INFORMATION

VOC: TSCA STATUS CERCLA REPORTABLE QUANTITY	0 pounds per gallon (0 grams per liter All ingredients are listed on the TSCA 100 pounds for fluorides (approximate	inventory.	
	X ACUTE HEALTH		
	FIRE		
SARA 311 / 312 HAZARD CLASSES	SUDDEN RELEASE OF PRES	SSURE	
	X CHRONIC HEALTH REACTIVE		
	REACTIVE		
SARA 312 INFORMATION	Storage of 10,000 pounds or more r reporting is 10,000 pounds. This mate		
SARA 313 INFORMATION	This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372		
CHEMICAL NAME None	CATEGORY CODE	CAS NUMBER	% BY WEIGHT
STATE REGULATORY INFORMATION CALIFORNIA PROPOSITION 65	California has not identified the ingrec toxicity.	ients listed in Section 3 as known	to cause cancer or reproductive

SECTION 16: OTHER INFORMATION

SDS STATUS:

Revised to GHS Standards on 01-13-16.

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1

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