

Safety Data Sheet

Section 1 Identification

Trade Name: Actonall-65 **Date Prepared:** 3/8/22
Product Identification: PR-ACT65
Synonyms: Ammonium Hydrogen Difluoride **CAS No:** 1341-49-7
Product Use Description: Industrial Acid

Details of the supplier of the safety data sheet

Plating Resources, Inc.
2845 W King St., Unit 108
Cocoa, FL 32926

Phone: (321) 632-2435

Website: www.plating.com

Emergency telephone number

Infotrac (800) 535-5053 (US & Canada)
(352) 323-3500

Section 2 Hazards Identification

GHS Classification:

Acute Toxicity Oral Category 3
Skin Corrosion/Irritation Category 1B
Serious Eye Damage/Irritation Category 1

GHS label elements:



Irritant Corrosive

Signal Word: Danger

Hazard Statements:

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

Precautionary Statements:

Prevention

P260 Do not breathe mist, vapours or spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves, protective clothing and eye protection or face protection.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P330 Rinse mouth.

P363 Wash contaminated clothing before reuse.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

Hazards Not Otherwise Classified (HNOC):

None.

Additional Information:

None.

Section 3 Composition

Chemical Name	Common name and synonyms	CAS #	%
Ammonium Bifluoride		1341-49-7	90 - 100

Section 4 First Aid

General:

Move out of dangerous area. Perform first aid measures as indicated. Seek medical attention and show this safety data sheet to attending physician.

Inhalation:

Move to fresh air and keep at rest in a position comfortable for breathing. If breathing difficulty occurs or persists seek medical attention. If not breathing give artificial respiration and seek immediate medical attention.

Skin contact:

Immediately flush exposed skin with water for at least 15 minutes while removing contaminated clothing and/or shoes. Seek immediate medical attention.

Eye contact:

Immediately flush eyes with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. Check for and remove any contact lenses if easy to do. Seek immediate medical attention.

Ingestion:

Rinse mouth with water. Do not induce vomiting. Seek medical attention if symptoms develop.

Most important symptoms and effects both acute and delayed:

Hydrofluoric acid (HF) differs from other acids because the fluoride ion readily penetrates the skin, causing destruction of the deep tissue layers, including bone. Pain associated with exposure to solutions of HF (1-50%) may be delayed for 1-24 hours. If HF is not rapidly neutralized and the fluoride ion bound, tissue destruction may continue for days and result in limb loss or death.

Indication of any immediate medical attention and special treatment needed:

Treat as Hydrofluoric Acid exposure.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media:

Use extinguishing media suitable for surrounding fire or source of fire. Use water spray to cool fire exposed containers.

Unsuitable Extinguishing Media:

No information available.

Specific hazards developing from the chemical:

No information available.

Precautions for firefighters:

No information available.

Firefighting Instructions:

No information available.

Protection During Firefighting:

Wear full protective gear and full face pressure demand self-contained breathing apparatus.

Other information:

No additional information available.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Avoid direct contact with skin, eyes and clothing. Avoid inhalation of mist, vapor or dust. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Contain spilled material and prevent run-off onto ground or into water sources or sewers.

Methods and material for containment and cleaning up:

Absorb on inert material and place in containers for disposal. Dispose of spilled/collected material in accordance with all federal, state and local regulations.

Section 7 Handling and Storage

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of mist, vapor and dust. Ensure adequate ventilation. Do not eat, drink or smoke while handling. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.

Conditions for safe storage, including any incompatibilities:

Store in original container. Keep container tightly closed. Store at room temperature (50-90 F) in a dry well-ventilated area.

Section 8 Exposure Controls/Personal Protection

Exposure limits:

Ingredient	Data Source	Exposure Form	Exposure Value	Exposure Notes
Ammonium Bifluoride	ACGIH TLV	TWA	2.5 mg/m ³	
	DFG-Germany	TWA	2.5 mg/m ³	
	IDLH Level		500 mg/m ³	
	NIOSH	TWA	2.5 mg/m ³	
	OSHA PEL	TWA	2.5 mg/m ³	

Appropriate Engineering Controls:

Use local and/or general exhaust ventilation to maintain airborne concentrations below irritating levels or exposure limits. An eyewash and safety shower should be available in the work area.

Individual protection measures:**Eye/face protection:**

Chemical goggles or face shield should be worn when handling this material.

Skin protection:**Hand Protection:**

Wear chemical resistant gloves when handling.

Other:

Wear chemical resistant clothing or chemical splash suit when handling.

Respiratory Protection:

Wear respiratory protection while using this material.

General hygiene considerations:

Follow good hygiene and safety practice. Wash hands and exposed skin before breaks and at the end of the work day. Do not eat, drink or smoke while handling this material. Do not wear contaminated or dirty clothing home from the work-site. Launder contaminated or dirty clothing before reuse.

Additional information:

No additional information available.

Section 9 Physical and Chemical Properties

Appearance	White Crystalline Solid
Odor	Pungent
Odor threshold	Not available.
pH	3.5 (5% solution)
Melting/freezing point	257°F (125°C)
Initial boiling point	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower flammability limit	Not available.
Upper flammability limit	Not available.
Lower explosive limit	Not available.
Upper explosive limit	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.5 g/cm ³
Solubility in water	602 g/l @ 68°F (20°C)
PC: n-octanol/water	Not available.
Auto-Ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Density	Not available.
Specific gravity	Not available.

Section 10 Stability and Reactivity

Reactivity:	Not reactive under normal use conditions.
Chemical stability:	Material is stable under normal handling and storage conditions.
Hazardous reactions:	Hazardous polymerization will not occur under normal handling and storage.
Conditions to avoid:	Avoid excessive heating, freezing and chemical contamination.
Decomposition products:	No decomposition products are expected under normal storage and handling conditions.
Incompatible materials:	Avoid contact with alkaline chemicals and unwanted contact with metals.

Section 11 Toxicological Information

Information on the likely routes of exposure:**Inhalation:**

Dust from this material may cause respiratory irritation.

Skin Contact:

This material may cause skin irritation which can result in serious burns and permanent damage.

Eye Contact:

This material may cause eye irritation which can result in serious burns and permanent damage.

Ingestion:

This material may cause gastrointestinal irritation which can result in serious burns and permanent damage.

Symptoms related to the physical, chemical and toxicological characteristics:

No information available.

Delayed and chronic effects:

No information available.

Numerical measures of toxicity:

Components	Exposure	Species	Dose	Notes
Ammonium Bifluoride:				
LD50	Oral	Rat	60mg/kg	

Toxicological effects:

Acute Toxicity:

Ammonium Bifluoride:

Material is toxic by ingestion.

Skin Corrosion/Irritation:

Ammonium Bifluoride:

Material is corrosive to the skin.

Serious Eye Damage/Irritation:

Ammonium Bifluoride:

Material is corrosive to the eyes.

Respiratory sensitization:

Ammonium Bifluoride:

Skin sensitization:

Ammonium Bifluoride:

No information available.

Germ cell mutagenicity:

Ammonium Bifluoride:

No information available.

Carcinogenicity:

Ammonium Bifluoride:

This product is considered to be a potential carcinogen by:

NTP: No

OSHA: No

IARC: No

Reproductive toxicity:

Ammonium Bifluoride:

This product is not expected to cause reproductive and developmental effects.

STOT-single exposure:

Ammonium Bifluoride:

No information available.

STOT-repeated exposure:

Ammonium Bifluoride:

No information available.

Aspiration hazard:

Ammonium Bifluoride:

This product is not an aspiration hazard.

Additional information:

None.

Section 12 Ecological Information

Ecotoxicity:

No information available.

Numerical measures of ecotoxicity:

Components	Type	Species	Dose	Notes
Ammonium Bifluoride:				
Ecotoxicity	TLM	Tinca Vulgaris	200 ppm	96 hrs

Persistence and degradability:

No information available.

Bioaccumulative potential:

No information available.

Mobility in soil:

No information available.

Other adverse effects:

No information available.

Additional information:

No information available.

Section 13 Disposal Considerations

Disposal instructions:

Dispose of material in accordance with all federal, state and local regulations.

Contaminated packaging:

Triple rinse container and offer for recycling. Dispose of container following all federal, state and local regulations.

Additional Information:

No additional information available.

Section 14 Transport Information

DOT:

UN number: UN1727

UN proper shipping name: UN1727, Ammonium Hydrogendifluoride, Solid, 8, PGII

Class: 8

Subsidiary Risk: none

Label(s): 8

Packing group: II

Packaging exceptions: none

Section 15 Regulatory Information

Federal regulations:

SARA 311/312 Hazard categories:

Immediate (Acute) Health Hazard.

Delayed (Chronic) Health Hazard.

None.

SARA 302 Extremely hazardous substance:

Not Listed.

SARA 304 Emergency release notification:

Not regulated.

SARA 311/312 Hazardous chemical:

No.

SARA 313 Toxic Release Inventory (TRI) report:

Not Regulated.

CERCLA Hazardous substance list:

Ammonium Bifluoride. Reportable Quantity: >100 lb

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA):

This chemical is not a pesticide product.

Clean Air Act regulated substances:

None.

Clean Water Act regulated substances:

Ammonium Bifluoride.

U.S. state regulations:

California RTK Substances

Ammonium Bifluoride. Listed.

Massachusetts RTK Substances

Ammonium Bifluoride. Listed.

New Jersey RTK Substances

Ammonium Bifluoride. Listed.

Pennsylvania RTK Substance

Ammonium Bifluoride. Listed.

Canadian regulations:

Canadian Ingredient Disclosure List substances:

Ammonium Bifluoride. Listed.

WHMIS classification:

Ammonium Bifluoride

Class D-1B

Class E

Section 16 Other Information

HMIS hazard ID:

HEALTH	3
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	J

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *-Chronic health effect

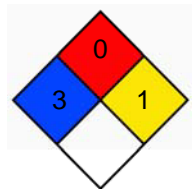
NFPA hazard ID:

Flammability:

Health:

Reactivity:

Special hazard:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Disclaimer:

This Manufacturer believes that the information contained in the Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of the publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.