

Safety Data Sheet

Product Name: **Aluminum Stuf HF**

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Manufactured by:
Randall Industries, LLC
4565 Hemlock Road
Cherry Tree, PA 15724

Section I

Emergency Phone Number: 1-800-535-5053
Phone Number for Information: 1-814-743-6630
MSDS Revision: Sep 13, 2015

Section II - Hazardous Ingredients

Ingredient(s):	CAS No:	OSHA PEL	ACGIH TLV
Phosphoric Acid	7664-38-2	3 mg/M ³	1mg/M ³
Hydrofluoric Acid	7664-39-3	3 ppm	
Ethylene Glycol Monobutyl Ether	111-76-2	25 ppm	25 ppm

HMIS: 301

NFPA:

Section III - Physical / Chemical Data

N/A=Not Applicable N/D=Not Determined

Appearance: Clear light brown liquid.	Solubility in Water: 100% Complete
Odor: Mild	Specific Gravity: 1.1 Water = 1
pH: 2	Vapor Pressure: N/D mm Hg
Boiling Point: 200 (93) °F (°C)	Vapor Density: N/D Air = 1
Melting Point: N/D °F (°C)	Evaporation Rate: N/D Butyl Acetate = 1

Section IV - Fire And Explosion Hazards

Flash Point: None to IBP °F (°C) (CC) **Flammable Limits:** LEL: N/A UEL: N/A

Extinguishing Media: Use water fog, foam, dry chemical or Carbon Dioxide.

Special Fire Fighting Procedures: Wear an approved self-contained breathing apparatus and protective clothing.

Fire / Explosive Hazards: Can react with chemically reactive metals such as aluminum, zinc, magnesium, copper, etc. to release hydrogen gas which is combustible.

Section V - Reactivity Data

Stability: Stable Unstable **Hazardous Polymerization:** May occur Will not occur

Incompatibility: Alkali (caustic) materials.

Hazardous Decomposition Products: Flammable Hydrogen gas when reacted with certain metals.

Conditions to Avoid: None known.

Section VI - Health Hazard Data

Primary Routes of Entry: Inhalation Skin Contact Ingestion

Health Hazards: Eyes & Skin: may cause irreversible damage.
Inhalation: may cause damage to nasal & respiratory passages.
Ingestion: may cause damage to mucous membranes and deep tissues.

Carcinogenicity: NTP IARC Monographs OSHA Regulated Not a carcinogen

Signs and Symptoms of Exposure: Irritating to eyes & skin. Burning/redness/irritation.
Ingestion: May cause vomiting, headache and other medical problems.
Inhalation: May cause coughing, sneezing, and upper respiratory irritation.

Conditions Generally Aggravated by Exposure: Pre-existing skin disorders may be aggravated with contact.

Emergency and First Aid Procedures: Eyes & Skin: Flush with water for 15 minutes, Seek medical attention immediately..
Ingestion: Do not induce vomiting. Drink water, milk of magnesia. Contact physician immediately.
Inhalation: Move to fresh air. Contact physician immediately.

Section VII - Precautions for Safe Handling and Use

If Material is Released or Spilled: Small spill: cover contaminated area with sodium bicarbonate or soda ash and add water if necessary to form a slurry. Large spill: dike to prevent spreading

Wastes Disposal Method: Dispose of in accordance with federal, state, and local regulations.

Precautions for Handling and Storing: Store between 40 and 120 degrees F.

Other Precautions: Keep Out Of Reach Of Children.

Section VIII - Control Measures

Respiratory Protection: Chemical cartridge respirator if exposure limits are exceeded. **Ventilation:** Adequate ventilation

Protective Gloves: Rubber Gloves

Eye Protection: Appropriate protective eyewear.

Other Protective Equipment: Impervious clothing and boots.

Work/Hygenic Practices: Wash hands before eating. Launder contaminated clothing before re-use.

