

# SAFETY DATA SHEET

## COYOTE CHEMICAL COMPANY

1111 N. Norbeck Street, Vermillion, SD 57069

1-800-658-3438

### SECTION 1. Identification of the Product and of the Company

**Product Name:** Alum-Anew

**UN/ID Number:** 2922

**Recommended Use:** Aluminum Cleaning

**Restrictions on Use:** Use only as directed on label

**Date of Issue:** 5/14/15

#### Emergency Telephone Numbers

PERS: 800-633-8253

### SECTION 2. Hazards Identification

#### EMERGENCY OVERVIEW

\* Hazard Determination System (HDS): Health, Flammability, Reactivity

3

0

1

#### Hazard Category /GHS - Classification

**Signal Word:** DANGER!

Acute Toxicity- Dermal	Category 1
Acute Toxicity- Oral	Category 1
Acute Toxicity- Inhalation	Category 1
Skin Corrosion	Category 1C
Serious Eye Damage	Category 1
Carcinogenicity	Category 1A
Specific Target Organ Toxicity (Single Exposure)	Category 1
Specific Target Organ Toxicity (Repeated or Prolonged Exposure)	Category 1
Corrosive To Metals	Category 1

#### Hazard Pictograms:



#### Hazard Statements:

Fatal in contact with skin

Toxic if swallowed

Toxic if inhaled

Causes severe skin burns and eye damage

Causes damage to organs(through prolonged or repeated exposure)

Causes serious eye damage

May cause cancer

Causes damage to organs

May be corrosive to metals

**Precautionary Statements - Prevention:**

Do not get in eyes, on skin, or on clothing	Avoid breathing fumes, vapors, mist or spray
Wash thoroughly after handling	Use only with adequate ventilation
Do not eat, drink or smoke when using this product	Follow instructions for use
Wear protective clothes, clothing, and eye protection	Keep in original container
Do not handle until all precautions are in use	

**Precautionary Statements - Response:**

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Gently wash with plenty of soap and water. Immediately remove contaminated clothing. seek medical attention if irritation persists.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

IF INHALED: Remove victim to fresh air. If trouble breathing persists seek medical attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: seek medical attention.

**Precautionary Statements - Storage:** Keep out of reach of children in a safe location. Keep container closed.

**Precautionary Statements - Disposal:** Dispose of contents and container according to state/local/ federal disposal regulations.

**Hazards not otherwise classified (HNOC):** This product can cause severe burns which may not be immediately visible or painful. May cause hypocalcemia (depletion of calcium in the body) which can be fatal. Special medical treatment is required.

### SECTION 3. Composition/Information on Ingredients

NAME OF INGREDIENT	CAS NUMBER	% BY WEIGHT
Hydrofluoric Acid	6834-92-0	9%
Sulfuric Acid	111-76-2	6%
Alcohols, C9-11,ethoxylated	68439-46-3	2%

### SECTION 4. First Aid Measures

**First aid measures for different routes of exposure**

**Eye Contact:** Immediate response is required. Rinse with plenty of water and seek medical attention.

**Skin Contact:** Immediate response is required. Immediately wash affected area with plenty of water and remove all contaminated clothing. Immerse the burned area in a .13% iced Benzalkonium Chloride , alternately apply a 2.5% topical calcium gluconate gel to the area. Seek medical attention.

**Inhalation:** Move to fresh air and call a physician. Physician may treat victim with oxygen nebulizer and calcium gluconate 2.5% in saline.

**Ingestion:** If swallowed immediate response is required. Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink several glasses of water or milk. If possible give several ounces of any antacid containing calcium.

**Most important symptoms/effects, acute and delayed:** The effects of hydrofluoric acid may not occur immediately upon contact or exposure.

**Notes to Physicians:** Treat symptomatically following guidelines for hydrofluoric acid listed above.

### SECTION 5. Fire Fighting Measures

**Suitable extinguishing media:** Dry chemical, CO<sub>2</sub>, alcohol-resistant foam.

**Unsuitable Extinguishing media:** Do not use water spray.

**Special Hazard:** During fire hazardous gasses may form.

**Special protective equipment for fire-fighters:** As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Specific hazards arising from the chemical:** Thermal decomposition may lead to the release of toxic vapors which are not to be breathed. This product causes skin, eye and mucous membrane burns.

### SECTION 6. Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Use proper protective equipment. Avoid contact with skin, eyes, clothing.

**Advice for emergency responders:** Use personal protective equipment as required.

#### Methods and materials for containment and cleaning up

**Methods for containment:** Absorb with earth, sand or other non combustible material and transfer to containers for later disposal.

**Methods for cleaning up:** Contain spillage, and then collect with noncombustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### SECTION 7. Handling and Storage

#### Precautions for safe handling

**Advice on safe handling:** Use personal protective equipment as required. Keep container closed when not in use. Ensure all labels remain in good condition and adhered to the container. Keep out of reach of children

#### Conditions for safe storage, including incompatibilities

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well ventilated place.

**Incompatible products:** Oxidizing agents, strong acids.

### SECTION 8. Exposure Control / Personal Protection

#### Exposure Guidelines

Chemical	OSHA PEL	ACGIH TLV
Hydrofluoric Acid	2.5 mg/m <sup>3</sup>	2 ppm
Sulfuric Acid	1 mg/m <sup>3</sup>	.02 mg/m <sup>3</sup>
Alcohols, C9-11,ethoxylated	Not determined	Not determined

**Appropriate engineering controls:** Ensure adequate ventilation. Eye wash station and shower.

#### Personal Protective Equipment

**Eye protection:** Use appropriate eye protection goggles or face shield when handling material.

**Hand protection:** Chemical protective gloves required

**Skin protection:** Chemical resistant gloves. Avoid contact with skin.

**Respiratory Protection:** No special protective equipment required with adequate ventilation.

## SECTION 9. Physical and Chemical Properties

### Appearance

**Physical state:** Liquid

**Form:** Liquid

**Color:** clear

**Odor:** Strong acid

**Odor threshold:** Not Available

**PH:** 0-1 10% aqueous solution

**Melting point/freeze point:** No information available

**Flash Point:** Not applicable

**Evaporation rate:** No information available

**Flammability (solid, gas):** Not available

**Upper/lower flammability or explosive limits**

**Flammability limit - lower %:** Not available

**Flammability limit - Upper %:** Not applicable

**Explosive limit- lower %:** Not available

**Explosive limit- upper %:** Not available

**Vapor pressure:** Not determined or unknown

**Relative density:** Not available

**Water solubility:** No information available

**Auto ignition temperature:** Not available

**Decomposition temperature:** Not available

**Specific gravity:** 1.04

## SECTION 10. Stability and Reactivity

**Reactivity:** The product is stable and non reactive under normal conditions of use, storage and transport.

**Chemical stability:** Material is stable under normal conditions.

**Possibility of hazardous reactions:** Contact with incompatible materials

**Conditions to avoid:** Contact with incompatible materials.

**Incompatible materials:** Alkalis, carbonates, glass and silicate containing materials, oxidizing agents, sulfides.

**Hazardous decomposition products:** fire can lead to the release of toxic gases.

## SECTION 11. Toxicological information

Chemical	LD 50 Oral	LD 50 Dermal	LC Inhalation
Hydrofluoric Acid	Not determined	Not determined	1278 ppm (rat) 1 hr.
Sulfuric Acid	2140 mg/kg (rat)	Not determined	347 ppm (rat) 1 hr.
Alcohols, C9-11,ethoxylated	Not determined	Not determined	Not determined

### Information on likely routes of exposure

**Ingestion:** Harmful if swallowed. Corrosive to esophagus, mucous membrane and stomach.

**Inhalation:** Respiratory irritant.

**Skin contact:** Causes burns, redness, irritation and itching which may not be immediate.

Hydrofluoric acid may cause internal tissue damage and hypocalcemia when it penetrates the skin.

**Eye contact:** Direct contact to eyes causes serious eye damage, redness, watering and blurry vision.

**Information on Physical, Chemical and Toxicological Effects**

**Symptoms:** Please see section 4 of this SDS for symptoms

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

**Carcinogenicity** Note: The agencies below have listed strong inorganic acid mist, containing sulfuric acid as a known carcinogen.

<b>Chemical Name</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
Sulfuric Acid 7664-93-9	A2	Group 1	Known	X

**ACGIH ( American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1- Carcinogenic to Humans

**OSHA Occupational Safety and Health Administration of the US Department of Labor**

X- Present

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**STOT - Single Exposure** May cause damage to organs

**STOT - Repeated Exposure** Causes damage to organs through prolonged or repeated exposure

**Numerical Measures of Toxicity** Not Determined

## SECTION 12. Ecological Information

**Eco toxicity**

<b>Chemical</b>	<b>Toxicity to Fish</b>	<b>Toxicity to Invertebrates</b>
Hydrofluoric Acid	60 mg/l freshwater fish	270 mg/l (48 h: Daphnia)
Sulfuric Acid	500 mg/l (96h: Brachydanio rerio)	29 mg/l (24 h: Daphnia)
Alcohols, C9-11,ethoxylated	Not determined	Not determined

**Persistence and degradability:** Readily biodegradable.

**Bio accumulative potential:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** No other adverse environmental effects are expected from this product.

### SECTION 13. Disposal Considerations

#### Waste treatment

**Disposal Instructions:** Dispose of contents in accordance with local/regional/national/international regulations.

**Waste from residues / unused products:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### US EPA Waste Number

Chemical Name	RCRA	RCRA- Basis for Listing	RCRA- D Series Waste	RCRA- U Series Wastes
Hydrofluoric Acid 7664-39-3	U134	N/A	N/A	U134

#### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Hydrofluoric Acid 7664-39-3	Toxic / Corrosive

### SECTION 14. Transportation Information

**DOT**      **Proper Name:** Corrosive Liquid, Toxic, n.o.s. (Hydrofluoric and Sulfuric Acid)  
**Hazard Class:** 8 **Subsidiary Hazard Class** (6.1)  
**UN Number:** UN2922  
**Packing Group:** II

**IATA**      **Proper Name:** Corrosive Liquid, Toxic, n.o.s. (Hydrofluoric and Sulfuric Acid)  
**Hazard Class:** 8 **Subsidiary Hazard Class** (6.1)  
**UN Number:** UN2922  
**Packing Group:** II

**IMDG**      **Proper Name:** Corrosive Liquid, Toxic, n.o.s. (Hydrofluoric and Sulfuric Acid)  
**Hazard Class:** 8 **Subsidiary Hazard Class** (6.1)  
**UN Number:** UN2922  
**Packing Group:** II

### SECTION 15. Regulatory Information

**International Inventories:** Not determined

US Federal Regulations**SARA 313**

Chemical Name	CAS NUMBER	% BY WEIGHT	SARA 313- Threshold Value%
Hydrofluoric Acid	6834-92-0	9%	1.0%
Sulfuric Acid	111-76-2	6%	1.0%

**CWA (Clean Water Act)**

Chemical Name	CAS NUMBER	CWA - Reportable Quantities	CWA - Hazardous Substances
Hydrofluoric Acid	6834-92-0	100 lbs.	X
Sulfuric Acid	111-76-2	1000 lbs.	X

**CERCLA**

Chemical Name	Hazardous Substances RQ	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrofluoric Acid 6834-92-0	100 lbs.	100 lbs.	RQ 100 lbs. final RQ RQ 45.4 kg. final RQ
Sulfuric Acid 111-76-2	1000 lbs.	1000 lbs.	RQ 1000 lbs. final RQ RQ 454 kg. final RQ

**US Regulations**

Chemical Name	California Proposition 65
Sulfuric Acid 111-76-2	Carcinogen

**US State Right -to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrofluoric Acid 6834-92-0	X	X	X
Sulfuric Acid 111-76-2	X	X	X

**SECTION 16. Other Information**

Issue Date: 05-14-15

Revision Date: None

Version: #1

NFPA rating

**Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.