# Safety Data Sheet

**Issue Date:** 12-Jun-2006 **Revision Date:** 12-Sep-2018 **Version** 2

## 1. IDENTIFICATION

**Product identifier**

**Product Name** Extra Strong Etch

**Other means of identification**

**SDS #** NAP00041R1

**UN/ID No** UN2922

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Used for kitchen and bath refinishing.

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

North America Polymer Company, Ltd.
7315 Hamlin Ave
Skokie, IL 60076 USA

**Emergency telephone number**

**Company Phone Number** 800-888-1081 / 847-779-6464
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Light brown liquid **Physical state** Liquid **Odor** Strong

**Classification**

| | |
|---|---|
| Acute toxicity - Oral | Category 3 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 3 |
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |

**Signal Word**

**Danger**

**Hazard statements**

Toxic if swallowed
Toxic if inhaled
Causes severe skin burns and eye damage

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**
Immediately call a poison center or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Do NOT induce vomiting

**Precautionary Statements - Storage**
Store locked up
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Unknown Acute Toxicity**
NOTE: Acute Toxicity classifications / calculations are approximates

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No. | Weight-% |
|---|---|---|
| Ammonium bifluoride | 1341-49-7 | 15-20 |
| Sulfuric acid | 7664-93-9 | 5-10 |
| Hydrogen fluoride | 7664-39-3 | 5-10 |

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

## 4. FIRST AID MEASURES

**Description of first aid measures**

**Eye Contact** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

**Skin Contact** Immediately begin flushing skin continuously for a minimum of 15 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Immediate medical attention is required.

**Inhalation** Remove to fresh air. If necessary, use artificial respiration to support vital functions. Call a physician or poison control center immediately.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Immediate medical attention is required.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** In severe cases, burns, corneal damage, and blindness may occur. Will cause irritation to the respiratory system. Toxic if swallowed. Toxic if inhaled.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Use 5 percent aqueous calcium gluconate gel to reduce depletion of calcium in bones. Skin: painful detection may be delayed, If suspected contact, treat as contact. Wash effected area of the skin with copious amounts of water. A calcium gluconate gel ( 2.5%) or a 1% zephrine chloride wash should be rubbed in until pain has subdued.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**
Not determined.

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

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions** In case of a spill, clear the affected area and protect people. Wear protective clothing as described in Section 8 of this safety data sheet.

**For Emergency Responders** Full-body chemical protective clothing is recommended for emergency response procedures.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** For small spills, absorb on polypads or other suitable non-reactive absorbent materials. Large spills should be handled by trained emergency response personnel.

**Methods for Clean-Up** Sweep up and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Wear appropriate personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children. Store locked up.

**Incompatible Materials** Alkali. Chlorine. Ammonia.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Ammonium bifluoride<br>1341-49-7 | TWA: 2.5 mg/m$^3$ F | TWA: 2.5 mg/m$^3$ F<br>(vacated) TWA: 2.5 mg/m$^3$ | IDLH: 250 mg/m$^3$ F<br>TWA: 2.5 mg/m$^3$ F |
| Sulfuric acid<br>7664-93-9 | TWA: 0.2 mg/m$^3$ thoracic particulate matter | TWA: 1 mg/m$^3$<br>(vacated) TWA: 1 mg/m$^3$ | IDLH: 15 mg/m$^3$<br>TWA: 1 mg/m$^3$ |
| Hydrogen fluoride<br>7664-39-3 | TWA: 0.5 ppm F TWA: 2.5 mg/m$^3$ F<br>S*<br>Ceiling: 2 ppm F | TWA: 3 ppm F TWA: 2.5 mg/m$^3$ F<br>(vacated) TWA: 3 ppm F<br>(vacated) TWA: 2.5 mg/m$^3$<br>(vacated) STEL: 6 ppm F | IDLH: 30 ppm IDLH: 250 mg/m$^3$ F<br>Ceiling: 6 ppm 15 min<br>Ceiling: 5 mg/m$^3$ 15 min<br>TWA: 3 ppm<br>TWA: 2.5 mg/m$^3$ |

**Appropriate engineering controls**

**Engineering Controls** Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. For operations where contact can occur, a safety shower and an eye wash facility should be available.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Splash goggles or safety glasses. Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Wear neoprene or butyl rubber gloves for routine industrial use. Use body protection appropriate for task. An apron or other impermeable body protection is suggested. Reference Wiley's "Quick Selection Guide to Chemical Protective Clothing". Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** In most cases (e.g. with adequate ventilation), a vapor/dust respirator (NIOSH/MSHA approved) is appropriate. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations, or the Canadian CSA Standard Z94.4-93 and applicable standards of Canadian Provinces. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory ProtectionStandard (1910.134-1998).

**General Hygiene Considerations** Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical state** | Liquid | | |
| **Appearance** | Light brown liquid | **Odor** | Strong |
| **Color** | Light brown | **Odor Threshold** | Not determined |

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | 1.75 | |
| **Melting point / freezing point** | Not determined | |
| **Boiling point / boiling range** | Not determined | |
| **Flash point** | Not available | |
| **Evaporation Rate** | Not determined | |
| **Flammability (Solid, Gas)** | Not determined | |
| **Flammability Limit in Air** | | |
| **Upper flammability or explosive limits** | Not determined | |
| **Lower flammability or explosive limits** | Not determined | |
| **Vapor Pressure** | Not determined | |
| **Vapor Density** | Not determined | |
| **Relative Density** | 1.42 | |
| **Water Solubility** | Not determined | |
| **Solubility in other solvents** | Not determined | |
| **Partition Coefficient** | Not determined | |
| **Autoignition temperature** | Not determined | |
| **Decomposition temperature** | Not determined | |
| **Kinematic viscosity** | Not determined | |
| **Dynamic Viscosity** | Not available | |
| **Explosive Properties** | Not an explosive | |
| **Oxidizing Properties** | Not determined | |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions.

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Conditions to Avoid**
Keep out of reach of children. Incompatible Materials.

**Incompatible materials**
Alkali. Chlorine. Ammonia.

**Hazardous decomposition products**
Produces hydrogen gas in contact with steel, also produces H2, F2 and other fluorine compounds.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

**Inhalation** Toxic if inhaled.

**Ingestion** Toxic if swallowed.

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Ammonium bifluoride 1341-49-7 | = 130 mg/kg ( Rat ) | - | - |
| Sulfuric acid 7664-93-9 | = 2140 mg/kg ( Rat ) | - | 85 - 103 mg/m$^3$ ( Rat ) 1 h |
| Hydrogen fluoride 7664-39-3 | - | - | = 0.79 mg/L ( Rat ) 1 h |

**Symptoms related to the physical, chemical and toxicological characteristics**

**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** The table below indicates whether each agency has listed any ingredient as a carcinogen. IARC has classified "strong inorganic acid mist containing sulfuric acid" as a Category 1 carcinogen, substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid. Inorganic mist is not generated under normal use of this product.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Ammonium bifluoride 1341-49-7 | | Group 3 | | |
| Sulfuric acid 7664-93-9 | A2 | Group 1 | Known | X |

**Legend**

***ACGIH (American Conference of Governmental Industrial Hygienists)***
*A2 - Suspected Human Carcinogen*
***IARC (International Agency for Research on Cancer)***
*Group 1 - Carcinogenic to Humans*
*Group 3 IARC components are "not classifiable as human carcinogens"*
***NTP (National Toxicology Program)***
*Known - Known Carcinogen*
***OSHA (Occupational Safety and Health Administration of the US Department of Labor)***
*X - Present*

**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document** .
**Unknown Acute Toxicity** NOTE: Acute Toxicity classifications / calculations are approximates.
**Oral LD50** 67.92 mg/kg

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
This compound may be harmful or fatal to contaminated plant and animal-life (especially if large quantities are released). No data are currently available on the effects of a release of this compound to bodies of water. It may be expected that a release, especially of a large quantity, may harm aquatic organisms.

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| Sulfuric acid 7664-93-9 | | 500: 96 h Brachydanio rerio mg/L LC50 static | 29: 24 h Daphnia magna mg/L EC50 |
| Hydrogen fluoride 7664-39-3 | | 660: 48 h Leuciscus idus mg/L LC50 | 270: 48 h Daphnia species mg/L EC50 |

**Persistence/Degradability**
Not determined.

**Bioaccumulation**
There is no data for this product.

**Mobility**
Not determined

| Chemical name | Partition coefficient |
|---|---|
| Hydrogen fluoride<br>7664-39-3 | -1.4 |

**Other Adverse Effects**
Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes** Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**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 Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|
| Hydrogen fluoride<br>7664-39-3 | U134 | | | U134 |

**California Hazardous Waste Status**

| Chemical name | California Hazardous Waste Status |
|---|---|
| Sulfuric acid<br>7664-93-9 | Toxic<br>Corrosive |

## 14. TRANSPORT INFORMATION

**Note** Based on package size, product may be eligible for limited quantity exception.

**DOT**

| | |
|---|---|
| **UN/ID No** | UN2922 |
| **Proper Shipping Name** | Corrosive liquids, toxic, n.o.s. (Hydrofluoric acid, Ammonium Bifluoride, Sulfuric acid) |
| **Hazard class** | 8 |
| **Subsidiary Hazard Class** | 6.1 |
| **Packing Group** | II |

**IATA**

| | |
|---|---|
| **UN number** | UN2922 |
| **Proper Shipping Name** | Corrosive liquids, toxic, n.o.s. (Hydrofluoric acid, Ammonium Bifluoride, Sulfuric acid) |
| **Transport hazard class(es)** | 8 |
| **Subsidiary hazard class** | 6.1 |
| **Packing Group** | II |

**IMDG**

| | |
|---|---|
| **UN number** | UN2922 |
| **Proper Shipping Name** | Corrosive liquids, toxic, n.o.s. (Hydrofluoric acid, Ammonium Bifluoride, Sulfuric acid) |
| **Transport hazard class(es)** | 8 |
| **Subsidiary Hazard Class** | 6.1 |
| **Packing Group** | II |

## 15. REGULATORY INFORMATION

**International Inventories**

| Chemical name | TSCA | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---|---|---|---|---|---|---|---|
| Ammonium bifluoride | X | X | X | X | X | X | X | X |
| Sulfuric acid | X | X | X | X | X | X | X | X |
| Hydrogen fluoride | X | X | X | X | X | X | X | X |

**Legend:**

***TSCA*** *- United States Toxic Substances Control Act Section 8(b) Inventory*

***DSL/NDSL*** *- Canadian Domestic Substances List/Non-Domestic Substances List*

***EINECS/ELINCS*** *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

***ENCS*** *- Japan Existing and New Chemical Substances*

***IECSC*** *- China Inventory of Existing Chemical Substances*

***KECL*** *- Korean Existing and Evaluated Chemical Substances*

***PICCS*** *- Philippines Inventory of Chemicals and Chemical Substances*

***AICS*** *- Australian Inventory of Chemical Substances*

**US Federal Regulations**

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| Ammonium bifluoride<br>1341-49-7 | 100 lb | | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |
| Sulfuric acid<br>7664-93-9 | 1000 lb | 1000 lb | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |
| Hydrogen fluoride<br>7664-39-3 | 100 lb | 100 lb | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute Health Hazard** | Yes |
| **Chronic Health Hazard** | Yes |
| **Fire Hazard** | No |
| **Sudden Release of Pressure Hazard** | No |
| **Reactive Hazard** | Yes |

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | CAS No. | Weight-% | SARA 313 - Threshold Values % |
|---|---|---|---|
| Ammonium bifluoride - 1341-49-7 | 1341-49-7 | 15-20 | 1.0 |
| Sulfuric acid - 7664-93-9 | 7664-93-9 | 5-10 | 1.0 |
| Hydrogen fluoride - 7664-39-3 | 7664-39-3 | 5-10 | 1.0 |

**CWA (Clean Water Act)**
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Ammonium bifluoride | 100 lb | | | X |
| Sulfuric acid | 1000 lb | | | X |
| Hydrogen fluoride | 100 lb | | | X |

**US State Regulations**

**California Proposition 65**
This product contains the following Proposition 65 chemicals.

| Chemical name | California Proposition 65 |
|---|---|
| Sulfuric acid - 7664-93-9 | Carcinogen |

**U.S. State Right-to-Know Regulations**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Ammonium bifluoride 1341-49-7 | X | X | X |
| Sulfuric acid 7664-93-9 | X | X | X |
| Hydrogen fluoride 7664-39-3 | X | X | X |

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** | **Flammability** | **Instability** | **Special Hazards** |
| | 3 | 0 | 3 | Not determined |
| **HMIS** | **Health Hazards** | **Flammability** | **Physical hazards** | **Personal Protection** |
| | 3 | 0 | 3 | Not determined |

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**Revision Date:** 12-Sep-2018
**Revision Note:** New formula

**Disclaimer**
**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its 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 only 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.**

**End of Safety Data Sheet**