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<b>Product Name: MASONRYSAVER NO-RINSE CONCRETE ETCH®</b>		<b>Date: 09-07-09</b>
<b>MSDS Number: AE-107</b>	<b>CAS Number: Mixture</b>	<b>Prepared by: Greg Herbert</b>

### SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Principal hazardous component(s) (chemical & common names) p.c. Threshold Limit Value (units)  
Ammonium Hydrogen Fluoride 2.5 mg/m<sup>3</sup> as F

### SECTION 2 - PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance and odor: ----- Clear liquid, pungent odor  
Boiling point: ----- >200°F at 760 mm Hg  
Vapor pressure (mm Hg and temperature):----- <0.75 mm Hg at 20°C  
Vapor density (air = 1): ----- Unknown  
Evaporation rate: ----- Unknown  
Solubility in water: ----- 41.5%  
Water reactive: ----- Unknown  
Specific gravity: ----- 1.5  
% volatile by volume:----- N/A

### SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash point and method used: ----- N/A  
Auto-Ignition Temperature: ----- N/A  
Flammability limits in air % by volume: ----- N/A  
Extinguishing media: ----- Carbon Dioxide, dry chemical, water  
Special fire fighting procedures: ----- Use NIOSH self-contained breathing spray apparatus operated in positive pressure mode.  
Unusual fire and explosion hazards: ----- Thermal decomposition or exposure to acid may release Hydrogen Fluoride Gas.

### SECTION 4 - REACTIVITY HAZARD DATA

Stability: ----- Stable under ordinary conditions  
Conditions to avoid: ----- Heat and moisture  
Incompatibility (materials to avoid): ----- Strong bases  
Hazardous decomposition products: ----- Reacts violently with Alkalis, releasing ammonia.  
Forms Hydrogen Fluoride with Acids. Liberates Hydrogen on contact with Iron, Zinc, and Aluminum.  
Hazardous polymerization: ----- Will not occur.  
Conditions to avoid: ----- Heat, moisture, and incompatible materials.  
Do not store in glass containers

## SECTION 5 - HEALTH HAZARD DATA

### Primary routes of entry:

  X   Inhalation      X   Skin Absorption      X   Ingestion    \_\_\_\_\_ Not Hazardous

### Carcinogen listed in:

\_\_\_\_\_ NTP    \_\_\_\_\_ IARC Monograph    \_\_\_\_\_ OSHA      X   Not Listed

### Signs and symptoms of exposure:

#### Acute Overexposure Symptoms:

**Symptoms of Ingestion:** TOXIC! CORROSIVE! Fluoride containing dust may cause a salty or soapy taste, vomiting, pain, diarrhea, weakness, loss of consciousness, and death. Kidney injury and stomach bleeding may occur.

**Symptoms of Inhalation:** CORROSIVE! Harmful to mucous membranes. Causes irritation of the upper respiratory tract. Symptoms may include coughing, sore throat, lung congestion, and rapid breathing. Nasal perforation possible. Also see ingestion.

**Symptoms of Skin Contact:** CORROSIVE! May be harmful to the skin. May cause poisoning from absorption through injured skin. May cause irritation, redness, and pain. Also see ingestion. Symptoms may be delayed.

**Symptoms of Eye Contact:** CORROSIVE! Harmful to the eyes. Causes irritation, redness, pain, discoloration, and may cause permanent damage. Also see ingestion.

**Chronic Overexposure:** Prolonged or repeated skin exposure to fluoride containing dust may cause excessive calcification of bone, ligament of ribs, pelvis, and spinal column. May aggravate other pre-existing disorders, to include diseases of the eye, skin, respiratory tract, central nervous system, skeletal system, and kidneys. TOXICITY DATA: Inhalation: LD50 1276 PPM/1 HR (RAT) Corrosive LC50 342 PPM/1 3 HR (MOUSE) Corrosive.

### Medical Conditions Generally Aggravated By Exposure:

**Emergency and First Aid Procedures-Eye Contact:** Immediately flush with large amounts of water for at least 15 minutes. It is essential to wash with water within one minute to minimize eye damage. After finishing, get medical attention.

**Skin Contact:** Remove contaminated clothing immediately. Wash affected area thoroughly with water, then apply calcium gluconate gel to the affected area and rub in for at least 15 minutes. If possible, apply a dressing soaked in 20% calcium gluconate solution and if burns cover more than the area of a hand, administer six effervescent calcium pills (400mg calcium per pill) dissolved in water. Transport immediately for medical attention.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person. Call physician immediately. Do not induce vomiting. Give two glasses of lime water, milk of magnesia or milk of available. Administer calcium pills as described in skin contact section. Medical treatment possibly including gastric lavage is required as soon as possible.

**Notes To Physician:** Take appropriate action to counteract symptoms.

## SECTION 6 - CONTROL AND PROTECTIVE MEASURES

**Respiratory protection (specify type):** NIOSH/MSHA Dust/Mist respirator with acid/base filters

**Protective gloves:** Chemical Resistant      **Eye protection:** Chemical splash goggles - remove contact lenses

**Ventilation:** System of local exhaust

**Local exhaust:** Preferred

**Mechanical (general):**

**Special:**

**Other protective clothing and equipment:** NIOSH/MSHA Dust/Mist respirator approved for acid and bases

**Hygienic work practices:** Always take extra care when handling chemicals. Wash thoroughly after handling.

## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

**Steps to be taken if material is spilled or released:** Removed combustibles and heat or ignition sources.

**Waste disposal methods:** Dispose in accordance with applicable federal, state, and local regulatory environmental requirements.

**Precautions to be taken in handling and storage:** CORROSIVE! Avoid contact with skin, eyes, or clothing.

**OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS: DANGER! MAY BE FATAL IF SWALLOWED OR INHALED. AFFECTS RESPIRATORY SYSTEM, HEART, SKELETON, CIRCULATORY SYSTEM, CENTRAL NERVOUS SYSTEM AND KIDNEYS. CAUSES IRRITATION AND BURNS TO SKIN, EYES, AND RESPIRATORY TRACT. IRRITATION AND BURN EFFECTS MAY BE DALAYED. HARMFUL IF ABSORBED THROUGH THE SKIN.**

**NFPA Rating:** Health \_\_\_\_\_ Flammability \_\_\_\_\_ Reactivity \_\_\_\_\_ Special \_\_\_\_\_  
**HMIS Rating:** Health   3   Flammability   0   Reactivity   2   Special   4  

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