

# MSDS - Material Safety Data Sheet

## I. Basic Information:

**Manufacturer:** U.N.X. INCORPORATED  
**Address:** 707 ARLINGTON BLVD.  
**City, ST Zip:** GREENVILLE, NC 27858  
**Country:** USA

**Contact:** AMENDT; WILSON  
**Information Telephone Number:** 252-756-8616  
**Emergency Contact:** CHEMTEL  
**Emergency Telephone Number:** 800-255-3924  
**Emergency Restrictions:**

**Product Name:** FLO-NEW  
**MSDS No.:** 357

**Issue Date:** 04/01/2008  
**Supersedes Date:** 04/27/2007

## II. Hazards Identification:

### EMERGENCY OVERVIEW

INHALATION, CAN IRRITATE NOSE, THROAT, AND LUNGS. SKIN CONTACT, CAN CAUSE TISSUE DESTRUCTION, WITH LONG TERM EXPOSURE. INGESTION, SEVERE INTERNAL IRRITATION AND DAMAGE CAN RESULT IF TAKEN BY MOUTH.

### OSHA Regulatory Status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product.

### Potential Health Effects

#### **Route(s) of Entry:**

SKIN, EYES, INHALATION

#### **Health Hazards (Acute and Chronic):**

INORGANIC FLUORIDES ARE HIGHLY IRRITATING AND TOXIC. LARGE DOSES CAN CAUSE NAUSEA, VOMITING, DIARRHEA, AND ABDOMINAL BURNING. CIRCULATORY, RESPIRATORY, NERVOUS COMPLAINTS, AND SKIN RASHES MAY OCCUR. LIQUID VAPOR MAY CAUSE SEVERE IRRITATION AND BURNS WHICH WILL NOT BE IMMEDIATELY APPARENT. IT ALSO CAUSES SEVERE IRRITATION TO THE LUNGS, NOSE AND THROAT. IF SWALLOWED, IT CAN CAUSE SEVERE DAMAGE TO THROAT AND STOMACH.

#### **Signs and Symptoms:**

INHALATION, CAN IRRITATE NOSE, THROAT, AND LUNGS. SKIN CONTACT, CAN CAUSE TISSUE DESTRUCTION, WITH LONG TERM EXPOSURE. INGESTION, SEVERE INTERNAL IRRITATION AND DAMAGE CAN RESULT IF TAKEN BY MOUTH.

#### **Medical Conditions Generally Aggravated by Exposure:**

NONE KNOWN

#### **Other Health Warnings:**

SCLEROSIS OR CHANGES OF BONES AND LIGAMENTS CAN BE SEEN BY X-RAY. ENZYME SYSTEM EFFECTS AND PULMONARY FIBROSIS ARE REPORTED, COMMON FINDINGS ARE EYE, SKIN, AND MUCOUS MEMBRANE IRRITATION, LOSS OF WEIGHT, ANOREXIA, ANEMIA, CACHEXIA, AND DENTAL EFFECTS.

### Potential Environmental Effects

NONE KNOWN

## III. Composition/Information on Ingredients:

| Chemical Name      | CAS No.  | % Range | Trade Secret |
|--------------------|----------|---------|--------------|
| Fluorosilicic acid | 16961834 | 50-60   |              |
| Water              | 7732185  | 40-50   |              |

## IV. First Aid Measures:

### Emergency and First Aid Procedures:

FOR EYES, FLUSH WITH WARM WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN. CONTINUE TO FLUSH WITH WATER UNTIL MEDICAL ATTENTION IS RECEIVED. IF INGESTED, DRINK LARGE VOLUMES OF WATER FOLLOWED BY MILK. THEN ADMINISTER MILK OF MAGNESIA (APPROXIMATELY 2 TABLESPOONS). IF VOMITING OCCURS SPONTANEOUSLY, ADMINISTER FLUID REPEATEDLY. GIVE MILK OR BEATEN EGGS, EVERY ONE TO TWO HOURS.

### Note to Physicians:

EYES, FLUSH WITH WATER.  
 INGESTION, DRINK LARGE VOLUMES OF WATER FOLLOWED BY MILK.

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## V. Fire Fighting Measures:

### Suitable Extinguishing Media:

DRY CHEMICAL, WATERFOG, CO2, FOAM

### Unsuitable Extinguishing Media:

NONE KNOWN

### Products of Combustion:

HIGHLY TOXIC AND CORROSIVE FUMES OF FLUORIDES ARE EMITTED; WILL REACT WITH WATER OR STEAM TO PRODUCE TOXIC AND CORROSIVE FUMES

### Protection of Firefighters:

USE NIOSH/MSHA APPROVED SELF CONTAINED BREATHING APPARATUS WHERE PRODUCT IS INVOLVED IN FIRE.

## VI. Accidental Release Measures:

### Personal Precautions:

RUBBER GLOVES SHOULD BE WORN.  
SAFETY GOGGLES SHOULD BE WORN.

### Environmental Precautions:

NONE KNOWN

### Methods for Containment:

DIKE; APPROVED PLASTIC CONTAINERS

### Methods for Cleanup:

FOR SMALL SPILL, NEUTRALIZE WITH SODA ASH AND LARGE VOLUMES OF WATER THEN FLUSH DOWN DRAIN. FOR LARGE SPILL: DIKE, COLLECT, AND ADD TO LARGE VOLUME OF COOL WATER WITH CONSTANT STIRRING. THEN SLOWLY NEUTRALIZE (pH 7.0) WITH LIMESTONE OR SODA ASH.

### Other Information:

Not Available

## VII. Handling and Storage:

### Handling Precautions:

KEEP CONTAINER CLOSED.

### Storage Precautions:

STORE IN DRY COOL PLACE.

## VIII. Exposure Controls/Personal Protection:

| Chemical Name      | OSHA PEL      | ACGIH TLV     | Other Limits  |
|--------------------|---------------|---------------|---------------|
| Water              | Not Available | Not Available | Not Available |
| Fluorosilicic acid | 2.5mg/m3      | 2.5mg/m3      | Not Available |

### Engineering Controls:

AVOID BREATHING MIST. IF EXPOSURE IS LIKELY, USE FILTER OR PROTECTIVE RESPIRATOR. MECHANICAL VENTILATION IS ACCEPTABLE.

### Personal Protective Equipment:

RUBBER GLOVES SHOULD BE WORN.  
SAFETY GOGGLES SHOULD BE WORN.  
OTHER PROTECTIVE MEASURES: HAVE AN EYE BATH AND SAFETY SHOWER CLOSE BY. IF POTENTIAL FOR SKIN CONTACT, WEAR PROTECTIVE GLOVES AND HAVE A HAND WASH AREA NEAR BY (ie. SOAP SOLUTION.).  
WORK/HYGIENIC PRACTICES: WASH HANDS, CHANGE OUT OF CLOTHES AS SOON AS POSSIBLE. WASH CLOTHES. SHOWER OR BATHE AS SOON AS POSSIBLE.

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## IX. Physical and Chemical Properties:

**Boiling Point:** 107°C

**Boiling Range:** NO DATA

**Solubility In Water:** EXCELLENT

**Flash Point:** N/A

**Odor Threshold:** NO DATA

**Vapor Density (AIR = 1):** NO DATA

**pH Range:** 0 - 2

**Decomposition Temp:** NO DATA

**Lower Explosive Limit:** -

**Specific Gravity (H2O = 1):** 1.11

**Other Information:** THIS PRODUCT CONTAINS NO PHOSPHATES.

**Melting Point:** -37°C

**Freezing Point:** 0°C

**Evaporation Rate (Butyl Acetate = 1):** NO DATA

**Flash Point Method:** -

**Appearance and Odor:** LIGHT AMBER LIQUID, ACID ODOR

**Vapor Pressure (mm Hg.):** 25

**Partition Coefficient:** NO DATA

**Auto-Ignition Temp:** NO DATA

**Upper Explosive Limit:** -

## X. Stability and Reactivity:

### Stability:

VERY STABLE

### Conditions to Avoid:

DANGEROUS WHEN HEATED TO DECOMPOSITION. WILL REACT WITH STEAM TO PRODUCE TOXIC AND CORROSIVE FUMES. MAY GENERATE HYDROGEN WHEN IN CONTACT WITH SOME METALS.

### Incompatible Materials:

CONTACT WITH METALS, STONWARE, STRONG ACIDS AND ALKALI, EXPLOSIVES, TOXICANTS, READILY OXIDIZABLE MATERIALS, ALKALI METALS, COMBUSTIBLE SOLIDS, AND ORGANIC PEROXIDES.

### Hazardous Decomposition Products:

EXTREME TEMPERATURE SUCH AS A FIRE CAUSE FORMATION OF HIGHLY TOXIC FUMES OF FLUORIDES SUCH AS SILICA FLUORIDES AND HYDROGEN FLUORIDE. HYDROGEN GAS MAY BE FORMED AT TEMPS ABOVE 227°F.

### Possibility of Hazardous Reactions:

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

## XI. Toxicological Information:

CONTACT U.N.X. INCORPORATED

## XII. Ecological Information:

CONTACT U.N.X. INCORPORATED

## XIII. Disposal Considerations:

FOR SMALL SPILL, NEUTRALIZE WITH SODA ASH AND LARGE VOLUMES OF WATER THEN FLUSH DOWN DRAIN. FOR LARGE SPILL: DIKE, COLLECT, AND ADD TO LARGE VOLUME OF COOL WATER WITH CONSTANT STIRRING. THEN SLOWLY NEUTRALIZE (pH 7.0) WITH LIMESTONE OR SODA ASH. DISPOSE OF AS FLUOSILICATE WASTE CONTACT APPROPRIATE AUTHORITY. CLEAN AND NEUTRALIZE ALL AREAS OF CONTACT.

## XIV. Transport Information:

**Shipping Name:** FLUOROSILICIC ACID

**DOT Hazard Class:** 8

**UN/NA#:** UN 1778

### Transportation Information:

UN 1778

DOT HAZARD CLASS: 8

LABEL: CORROSIVE

PG: II

PROPER SHIPPING NAME: FLUOROSILICIC ACID

**DOT Subsidiary Hazard Class:** Not Available

**Packing Group:** II

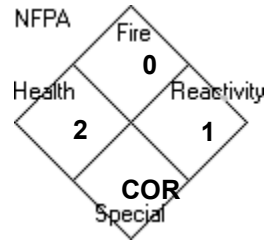
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**XV. Regulatory Information:**

UNLESS OTHERWISE NOTED, NO COMPONENTS ARE SARA TITLE 3 SECTION 313 40 CFR LISTED MATERIALS.  
 THE INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.  
 THIS PRODUCT IS NOT MADE WITH VOC'S THAT COULD CAUSE DAMAGE TO THE OZONE LAYER.

**XVI. Other Information:**

**Chemical State:**     Liquid     Gas     Solid  
**Chemical Type:**     Pure     Mixture  
**Hazard Category:**  
                    Acute     Chronic     Fire  
                                    Pressure     Reactive



**Additional Manufacturer Warnings:**

Not Available

|   |                  |
|---|------------------|
| 2 | Health           |
| 0 | Flammability     |
| 1 | Physical Hazard  |
| D | Pers. Protection |

**Additional Product Information:**

RUST REMOVING SOUR