

FLO-NEW SAFETY DATA SHEET

UNX35753 UNX35759 UNX35765 UNX35771

SECTION 1: Identification

Product identifier: Flo-New

Other means of identification: Sour

SDS number: 357

Recommended use: Laundry Sour

Recommended restrictions: Not for personal care.

Manufacturer/Importer/Supplier/Distributor information

Company name: U.N.X. Incorporated Address: 707 Arlington Blvd

Greenville, NC 27858

Telephone: Office hour (Mon-Fri)

8:00a.m. – 4:00p.m. (Eastern Time) OFFICE NUMBER: 252-756-8616

E-mail: unx@unxinc.com

Emergency phone number: CHEMTEL (800) 255-3924 (24 HOURS)

SECTION 2: Hazard(s) identification

Classification of the Substance or Mixture:

Physical hazards

Corrosive to metals: Category 1

Health hazards

Acute toxicity, oral:

Acute toxicity, dermal:

Skin corrosion/irritation:

Category 4

Category 5

Skin corrosion/irritation:

Category 1B

Category 1

Label elements:





Signal word: Danger

Hazard statements:

H290 May be corrosive to metals. H302 Harmful if swallowed.

H313 May be harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

SECTION 2: Hazard(s) identification (continued)

Precautionary statements

Prevention:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P262 Do not get in eyes, skin, or on clothing.

P264 Wash hands, arms, face and exposed skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P362+P364 Take off contaminated clothing and wash it before reuse. P308+P313 IF exposed or concerned: Get medical advice/attention.

Storage:

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

Hazard(s) not otherwise Classified (HNOC): Not classified

SECTION 3: Composition/information on ingredients

Substance/Mixtures

Chemical name	CAS Number	Concentration (%)
Water	7732-18-5	70-90
Fluorosilicic Acid	16961-83-4	10-30

Section 4: First-aid measures

Description of first aid measures

General advice: Remove victims from the danger zone without endangering your own safety. Remove contaminated clothing (including underwear and shoes) immediately.

Inhalation: Bring accident victims out into the fresh air. If not breathing, give artificial respiration. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. If patient has difficulty breathing, administer oxygen, keep the patient calm and warm. In case of unconsciousness place patient stably in side position for transportation. Call a physician immediately.

Skin contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. After contact with small amounts get medical attention if any discomfort or irritation continues. For large amounts, obtain medical attention.

Eye contact: Immediately flush eyes with gentle but large stream of water or eye wash solution for at least 15 minutes, lifting lower and upper eyelids occasionally. If possible remove any contact lenses and continue to wash. Call a physician, immediately.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. DO NOT induce vomiting unless directed to do so by medical personnel. Call a physician, immediately.

Most important symptoms/effects, acute and delayed:

Notes to physician: The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation: Irritation of nose, throat and upper respiratory tract. Severe exposures can lead to a chemical pneumonitis.

Ingestion: Corrosive. May cause sore throat, abdominal pain, nausea, and severe burns of the mouth, throat, and stomach. May affect the urinary system, liver, and blood. Severe exposures can lead to shock, circulatory collapse, and death.

Skin contact/Skin irritation: Corrosive. May cause redness, pain and severe skin burns.

Eye contact: Corrosive. May cause redness, pain, blurred vision, eye burns, and permanent eye damage. May cause corneal damage, conjunctivitis, and/or Lachrymation.

Indication of immediate medical attention and special treatment needed, if necessary:

Cases of eye contact and ingestion should be treated immediately. Have facilities in place to wash skin and eyes in case of exposure.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Not considered to be a fire hazard. In case of fire use carbon dioxide (CO₂), foam, extinguishing powder. Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire-exposed containers cool. If water is used, use in abundance to control heat.

SECTION 5: Fire-fighting measures (continued)

Unsuitable extinguishing media: Do not use water jet as this can spread the fire. Do not use carbon dioxide in enclosed spaces with insufficient ventilation.

Specific hazards arising from the chemical: The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes. Reacts with many metals to produce flammable and explosive hydrogen gas. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Product containers can melt in the heat of a fire. Packaging materials will be combustible and provide fuel for the fire. In the event of fire and/or explosion do not breathe fumes.

Special protective equipment and precautions for fire-fighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. During fire-fighting respirator with independent air-supply and airtight garment is required. Fight fire in early stages if safe to do so. Containers at risk of fire should be cooled with water and, if possible removed from the danger area.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate area of leak or spill. Ensure adequate ventilation/exhaust extraction. Put on protective equipment (see Section 8). Have emergency procedures in place for treating spillages, evacuating the area and informing the emergency services if necessary. Restrict access to the area until the spillage is treated, if large amounts of vapors are produced that will be hazardous to others, evacuate the area. Non-emergency personnel should be kept away from the area of spillage.

Environment precautions: Clean up any spillages immediately; prevent material from spreading and entering drains or sewage systems. Large spillages or uncontrolled discharge to water systems must be alerted to the environmental agency or other regulatory body.

Methods and materials for containment and cleaning up: Contain and recover liquid when possible. Small spillages should be absorbed with an inert, non-combustible absorbent. Large Spillages: Dam and absorb spillages with sand, earth or other inert material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labeled with correct contents and hazard symbol. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Ventilate area and allow drying before allowing access.

Reference to other sections: Refer to sections 8 and 13 for additional information.

SECTION 7: Handling and storage

Precautions for safe handling: Keep in a closed container and protect from physical damage. Store in a cool, dry, and ventilated area. Keep away from sources of heat, moisture, incompatibilities, and away from direct sunlight. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Do not wash out container and use it for other purposes.

SECTION 7: Handling and storage (continued)

Conditions for safe storage, including any incompatibilities: Store in closed original container at temperatures between 40°F and 80°F. If the product is transferred to another container, this should be made of a compatible material to the original container. Store away from heat, direct sunlight and moisture. Store in a stable situation to avoid spillages. It is advisable to store in a bunded area or use other protective measures such as a sump pallet or storage tray.

SECTION 8: Exposure control/personal protection

Control Parameters

Occupational exposure limits

US.OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Chemical Name	CAS-No.	Туре	Value
Fluorosilicic Acid	16961-83-4	TWA	2.5 mg/m ³ F(As F)

U.S. ACGIH Threshold Limit Values

Chemical Name	CAS-No.	Туре	Value
Fluorosilicic Acid	16961-83-4	TWA	2.5 mg/m ³ F(As F)

Appropriate engineering controls:

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the defined exposure limit requirements or guidelines. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition for details.

Individual protection measures, such as personal protective equipment (PPE)

Eye Protection: Use chemical safety goggles and/or full-face shield where dusting or splashing of solution is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hand protection: Wear protective gloves. Butyl rubber, rubber (natural, latex), nitrile, polyvinyl chloride (PVC). Be aware that latex gloves can produce an allergic reaction in sensitive individuals. Gloves should have a breakthrough time sufficient for the amount of handling but allow dexterity for safe movement and handling. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Gloves showing signs of degradation should be changed to avoid skin contamination. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. When removing used gloves apply proper technique by avoiding skin contact with the outer surface. When packages of the product are being handled during storage or transport it is advisable to wear protective gloves to prevent damage to the skin.

SECTION 8: Exposure control/personal protection (continued)

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded, a full face piece respirator with high efficiency dust/mist filter may be worn up to 50 times the exposure limit. Wear suitable respiratory protection when vapors or mists are produced if the Workplace Exposure Limit is exceeded and there is insufficient ventilation or extraction. For emergencies or instances where the exposure levels are not known, use a full face piece positive-pressure, air-supplied respirator. Respirator must be fitted with a cartridge suitable for the chemical of concern. Consult with the supplier as to the compatibility of the equipment with the chemical of concern. CAUTION: Air purifying respirators do not protect the user in oxygen deficient atmospheres, use air supplied system.

Thermal Hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: Wash hands, change out of clothes as soon as possible. Wash clothes. Shower or bathe as soon as possible.

Other protective measures: Have an eye bath and safety shower close by.

SECTION 9: Physical and chemical properties

Appearance: Liquid Color: Clear Odor: None

Odor Threshold: No data available

pH: 1.5 ± 0.5

Melting point/range:

Boiling point/range:

Flash point:

Evaporation rate:

No data available

Upper/lower flammability of explosive limits: No data available

Vapour pressure (mm Hg):No data availableVapour density (Air=1):No data availableRelative density:No data available

Solubility(ies): Excellent

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, dynamic: No data available

Other Information: This product does not contain phosphates.

SECTION 10: Stability and reactivity

Reactivity and/or chemical stability: If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Product is very stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Avoid heat, direct sunlight, and moisture. Avoid storage with incompatible materials. Avoid storage in freezing conditions. Avoid storage near unprotected drainage systems. Avoid storage in an unstable manner or in a situation that would result in exposure to the product. It is advisable to store the product within some form of containment to prevent spillages reaching drainage systems. Do not allow the storage container to be left exposed to the atmosphere.

Incompatible materials: Contact with metals, stoneware, strong acids and alkali, explosives, toxicants, readily oxidizable materials, alkali metals, combustible solids, and organic peroxides.

Hazardous decomposition products: Extreme temperatures such as a fire causes formation of highly fumes of fluorides such as silica fluorides and hydrogen fluoride.

SECTION 11: Toxicological information

Acute toxicity: Toxicological testing has not been conducted with this material. The toxicology information listed below us based on the components of this material.

Category 4- oral: Harmful if swallowed.

Category 5- dermal: May be harmful in contact with skin.

Fluorosilicic Acid – Acute Toxicity Estimate (ATE)		
Oral LD ₅₀	LC_{50}	Oral LD ₅₀
125 mg/kg (Rat)	1.11 mg/L (Rat) 1 hour	200 mg/kg (Guinea pig)

Skin Corrosion/ irritation: Category 1: Causes severe skin burns and eye damage due to an acidic pH.

Serious eye damage/irritation: Category 1: Causes serious eye damage due to an acidic pH.

Respiratory or skin sensitization: Classification not possible.

Germ cell mutagenicity: Classification not possible.

Carcinogenicity: Classification not possible. **Reproductive toxicity:** Classification not possible.

Specific Target Organ Toxicity - Single Exposure: Classification not possible.

Specific Target Organ Toxicity - Repeated Exposure: Classification not possible.

Aspiration hazard: Classification not possible.

SECTION 12: Ecological information

Toxicity: Do not allow to escape into waterways, wastewater or soil. Ecotoxicological studies of the product are not available. Please find below the data available to us from raw materials:

Aquatic ecotoxicity:

	Fluorosili	cic Acid	
LC ₅₀ (Fish) 96h	EC ₅₀ (Crustaceans) 48h	EC ₅₀ (Crustaceans) 96h	EC ₅₀ (Algae) 96h
Salmo Gairdneri	Daphnia Magna	Mysidopsis Bahia	Scenedesmus Specie
51.0 mg/L (as fluorides)	97.0 mg/L (as fluorides)	10.5 mg/L (as fluorides)	43 mg/L

Persistence and degradability: No information available.

Bioaccumulative potential: No information available. **Mobility in soil:** No information available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

General information

Do not allow unauthorized disposal to the environment. If operators are exposed to vapors during the disposal process then suitable respiratory protection should be worn. All other personal protective equipment as described in section 8 should be worn.

Disposal methods:

Avoid unauthorized disposal. Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with federal, state/provincial and local laws and regulations. For a small spill, immediately hose down with cool water and dispose to drain. For a large spill, dike, collect and contact local authorities about disposal.

SECTION 14: Transport information

UN Number: UN 1778

UN Proper Shipping Name: Fluorosilicic Acid

Transport hazard class(es):

DOT Hazard Class: 8

DOT Subsidiary Hazard Class: Not Available **Label:** Corrosive

Packing group, if available: | | Environmental Hazards: Yes

Special precautions for user: Not available.

Transport in bulk according to Annex II of MARPOL 73/783 and the IBC Code 3: Not applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

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.

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

California Proposition 65: This product does not contain any proposition 65 chemicals.

SECTION 16: Other information including date of preparation or last revision

Chemical State: LiquidIssue Date:04-16-2014Chemical Type: MixtureRevision Date:01-21-2019

Version #: 03

3	Health
0	Flammability
1	Physical Hazard
D	Personal Protection

To the best of our knowledge, the information contained herein is accurate. However, neither U.N.X. Incorporated nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used within caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.