

**Product Name:** NSF Basic Sour

**Revision Date:** 12/1/2015

NORCHEM CORPORATION encourages and expects you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

## SECTION I- PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** NSF Basic Sour

**Recommended use of the chemical:** Liquid Laundry Sour

*We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.*

**Company Identification:** Norchem Corporation  
5649 Alhambra Avenue  
Los Angeles, CA 90032  
United States of America

**Customer Information Number:** Phone: (323) 221-0221

Fax: (323) 227-8733

**Chemtrec Emergency Phone Number (24 Hour):** (800) 424-9300 USA

## SECTION II- HAZARDS IDENTIFICATION

### GHS Classification:

Acute toxicity (oral):	Category 4
Skin Corrosion:	Category 1
Serious Eye Damage:	Category 1

**GHS Label Elements:** Hazard pictograms/symbols

**Signal Word:** Danger

### Hazard Statement:

H303: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H332: Harmful if inhaled.  
H372: Causes damage to organs (bone) through prolonged or repeated exposure.



### Precautionary Statements:

#### Prevention:

P260: Do not breathe dust/mist/spray.  
P262: Do not get in eyes, on skin, or on clothing.  
P264: Wash all exposed external body area thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with after for several minutes  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting..  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P302+P361+ P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.  
P310: Immediately call a POISON CENTER or doctor/physician.  
P363: Wash contaminated clothing before reuse.

**Storage:**

P233: Keep container tightly closed.  
 P210: Keep only in original container.

**Disposal:**

P501: Dispose of contents/container to be specified in accordance with regulation

**SECTION III– INFORMATION OF INGREDIENTS**

Components	CAS #	OSHA PEL	ACGIH TLV
Fluorosilicic Acid	16961-83-4	N/E	N/E

**SECTION IV– FIRST AID AND MEASURES**

- Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
- Skin Contact:** In case of contact with skin, immediately remove contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
- Inhalation:** Remove the subject from exposure immediately and perform artificial respiration if directed to do so by medical personnel. If breathing difficult, give oxygen. Get medical attention in case of respiratory symptoms.
- Swallowing:** If subject is conscious, rinse mouth with fresh water to dilute chemical. Do NOT induce vomiting unless directed to do so by medical personnel.

**SECTION V– FIRE FIGHTING MEASURES**

**Fire and Explosive Preventive Measures:** Non-Flammable

**Extinguishing Media:** Use extinguishing measure that are appropriate to local circumstances and the surrounding environment. Use water spray alcohol-resistant foam, dry sand or carbon dioxide.

**Special Fire Fighting Procedures:** Evacuate all non-essential personnel from fire area. Intervention only capable personnel who are trained and aware of the hazards of the product. Move unaffected product to a safe area if safe to do so. Do NOT enter air-space without appropriate protective clothing.

**Unusual Explosion and Fire Procedures:** Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritation gases and vapors.

**SECTION VI– ACCIDENTAL RELEASE MEASURES**

**Precautions:** Avoid materials and products which are incompatible with the product (see section 10). Avoid direct contact of the product with moisture, except for emergencies and clean up. Avoid breathing vapors, mist or gas. Avoid contact with skin and eyes.

**Cleanup Methods**

**Small Spills:** Absorb with earth, sand or other non-combustible and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.

**Large Spills:** Do not release into sewers or waterways. Clean spill area with large quantities of water. Follow applicable OSHA regulations (29 CFR 1910.120).

**SECTION VII- HANDLING AND STORAGE**

- Handling:** Avoid breathing mists or vapors. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Store in away from incompatible materials.
- Storage:** Keep container tightly closed and upright when not in use to prevent leakage. Store in a dry well ventilated area, and away from direct sunlight. Keep away from heat and humidity sources.
- Non-bulk Containers:** Store containers in a cool, dry location away fro direct sunlight, sources of intense heat or where freezing is possible. Store containers away from incompatible products. Empty containers should be handled with care. Never store food, feed or dinking water in containers which held chemical.
- Bulk Containers:** All tanks and pipelines which contain this material must be labeled. Perform routine maintenance on tanks or pipelines which contain this products. Report all leaks immediately to the proper personnel.
- Tank Car Shipments:** Tank cars carrying this product should be loaded and unloaded in strict accordance with tank-car manufacturer’s recommendation and all established on-site safety procedures. Appropriate personal protective equipment much be used. All loading and unloading equipment much be inspected, prior to each use. Tank car or storage tanks much be verified to be correct for receiving product and be properly prepared prior to starting the transfer operations

**SECTION VIII- EXPOSURE CONTROLS AND PERSONAL PROTECTION**

- Engineering Measures:** Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/Face Protection:** Wear tight fitting protective safety glasses or chemical safety goggles with side shields per OSHA regulations (29 CFR 1910.133). Contact lenses are not protective devices.
- Hand Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
- Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/ NIOSH approved respirator.
- General Hygiene Protection:** Handle in accordance with good industrial hygiene and safety practices. When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

**Occupational Exposure Limits Fluorosilicic Acid 16961-83-4**

US OSHA Table Z-1 (29 CFR 1910.1000)	PEL	2.5 mg/m <sup>3</sup>
US OSHA Table Z-2 (29 CFR 1910.1000)	TWA	2.5 mg/m <sup>3</sup>
US ACGIH Threshold Limit Values	TWA	2.5 mg/m <sup>3</sup>
US NIOSH	TWA	2.5 mg/m <sup>3</sup>

**Biological Limit Values Fluorosilicic Acid 16961-83-4**

Value	Determinant	Specimen	Sampling Time
3 mg/L	Fluoride	Urine	N/A
2 mg/L	Fluoride	Urine	N/A

## SECTION IX– PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b> Clear Liquid	<b>Upper Flammable Limit in Air:</b> N/A
<b>Color:</b> Colorless	<b>Vapor Pressure:</b> 218 mm/Hg @ 75°C
<b>Odor:</b> Pungent	<b>Vapor Density:</b> N/A
<b>pH:</b> N/A	<b>Pounds/Gallon:</b> Gallons
<b>Melting Point:</b> N/A	<b>Specific Gravity:</b> 1.2
<b>Boiling Point:</b> 105°C	<b>Flash Point:</b> N/A
<b>Partition Range:</b> N/A	<b>Auto Ignition Temperature:</b> N/A
<b>Flammability Classification:</b> Non-Flammable	<b>Decomposition Temperature:</b> N/A
<b>Lower Flammable Limit in Air:</b> N/A	<b>Water Solubility:</b> Complete
<b>Partition Coefficient:</b> N/A	

## SECTION X– STABILITY AND REACTIVITY

<b>Stability:</b> Stable	<b>Conditions to Avoid:</b> Keep away from heat
<b>Materials to Avoid:</b> Alkalis and glass organic peroxides	<b>Hazardous Decomposition Products:</b> May produce toxic and corrosive fumes.
<b>Hazardous Polymerization:</b> Will not occur	

## SECTION XI– TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure:

- Inhalation:** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
- Skin Contact:** Causes severe skin burns.
- Eye Contact:** Causes serious eye damage.
- Ingestion:** Causes digestive tract burns. Harmful if swallowed.

<b>Skin Corrosion/Irritation:</b>	Causes severe skin burns and eye damage.
<b>Serious Eye Damage/Eye Irritation:</b>	Causes serious eye damage.
<b>Sensitization:</b>	No information available
<b>Carcinogenicity:</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or
<b>Teratogenicity:</b>	No information available

<b>Reproductive Toxicity:</b>	This product is not expected to cause reproductive or developmental effects.
<b>Mutagenicity:</b>	This product is not reported to produce mutagenic effects in humans.
<b>Aspiration:</b>	No data available

**Specific Target Organ Systemic Toxicity (Single Exposure):** Not classified

**Specific Target Organ Systemic Toxicity (Repeated Exposure):** Not classified

#### Mammalian Toxicity Information:

CAS 16961-83-4 Fluorosilicic Acid

LD50 (oral): 200 mg/kg (guinea pig)

LD50(oral): 430 mg/kg (rat)

## SECTION XII- ECOLOGICAL INFORMATION

CAS 16961-83-4

Expected to be harmful to aquatic organisms. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems .

**Bioaccumulation:** No data available

**Biodegradation:** None know

**Abiotic Degradation:** No data available

**Mobility in soil, water:** No data available

**SECTION XIII– DISPOSAL CONSIDERATIONS**

**Disposal Instructions:** Dispose of contents/container in accordance with local/region/national/international regulations

**Hazardous waste code:** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues/unused products:** Empty container or liners may retain some product residues. This material and it's container must be disposed of in a safe manner.

**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**SECTION XIV– TRANSPORT INFORMATION**

<b>DOT/TDG UN STATUS:</b>	UN1778, Fluorosilicic acid, Class 8, PG II
<b>DRUM/LABEL:</b>	Corrosive
<b>IATA/ICAO:</b>	UN1778, Fluorosilicic acid, Class 8, PG II
<b>IMO/IMDG:</b>	UN1778, Fluorosilicic acid, Class 8, PG II
<b>EMERGENCY RESPONSE GUIDELINE NUMBER:</b>	154

**SECTION XV– REGULATORY INFORMATION****US Federal Regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERLA Hazardous Substance List (4. CFR 302.4): Not Listed

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not Listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not Listed

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not Regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA): Immediate Hazard

**SARA Title III**

Section 302 Extremely Hazardous Substance: Not Listed

Section 311/312 Hazardous Chemical: Not Listed

Section 313 Toxic Release Inventory: Not Listed

Section 304 Emergency Release Notification: Not Listed

**Other Federal Regulations**

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated

Clean Air Act (CAA) Section 111 Accidental Release Prevention (40 CFR 68.130): Not regulated

Safe Drinking Water Act: Not Regulated

**US State Regulations**

US Massachusetts RTK-Substance List: Fluorosilicic Acid CAS 16961-83-4

US New Jersey Worker and Community Right-To-Know Act: Fluorosilicic Acid CAS 16961-83-4

US Pennsylvania Worker and Community Right-To-Know Law: Fluorosilicic Acid CAS 16961-83-4

US Rhode Island RTK: Not Regulated

US California Proposition 65 (CRT): Not Listed

**International Regulations:**

The components of this product are listed on the chemical inventories of the following countries: Australia (AICS), Europe (EINECS) Japan (ENCS), USA (TSCA).

**SECTION XVI– OTHER INFORMATION**

**Hazard Rating System NFPA**

<b>Health</b>	<b>Fire</b>	<b>Reactivity</b>
3	0	1

THE INFORMATION ON THIS SAFETY DATA SHEET IS BELIEVED TO BE ACCURATE AND IT IS THE BEST INFORMATION AVAILABLE TO NORCHEM CORPORATION. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONS FOR HANDLING A CHEMICAL BY A PERSON TRAINED IN CHEMICAL HANDLING. NORCHEM CORPORATION MAKES NO WARRANTY OF MERCHANT ABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO SUCH INFORMATION OF THE PRODUCT TO WHICH THIS SAFETY DATA SHEET RELATES. USERS AND HANDLERS OF THIS PRODUCT SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION PROVIDED HEREIN FOR THEIR OWN PURPOSES