

# SAFETY DATA SHEET

## SOUR PLUS

### SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: SOUR PLUS  
 PRODUCT USE: Laundry product, rust removing sour and pH adjuster.  
 VENDOR NAME AND ADDRESS: Alpine Specialty Chemicals Ltd.  
 9 City View Drive, Etobicoke, Ontario M9W 5A5  
 24 HOUR EMERGENCY NO. 613-996-6666 ( CANUTEC )

### SECTION 2 – HAZARDS IDENTIFICATION

#### CLASSIFICATION

- SKIN CORROSION /IRRITATION Category 1A, EYE DAMAGE IRRITATION Category 1. SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE CATEGORY 1 (BONE).

#### LABEL ELEMENTS



- SIGNAL WORD: DANGER
- HAZARD STATEMENT(S): “CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. CAUSES DAMAGE TO ORGANS (Bone) THROUGH PROLONGED EXPOSURE IF SWALLOWED.
- PRECAUTIONARY STATEMENTS: Wash skin thoroughly after handling. Wear chemical safety glasses and nitrile gloves. Do not mix with bases. Dispose of contents/ containers in accordance with local regulations. Take off contaminated clothes and wash it before reuse.
- Response: - IF ON EYES: Wash with plenty of water. Get medical attention.

IF SWALLOWED: Get medical attention.

### SECTION 3 – COMPOSITION / INFORMATION INGREDIENTS

CHEMICAL NAME	%	CAS.NO
FLUOROSILICIC ACID	2 - 8	16961-83-4

### SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove source of exposure or move to fresh air. Call a poison centre or doctor if you feel unwell.  
**Skin Contact:** Rinse skin with water or shower. Get medical attention or advice. Wash clothing before reuse. Clean shoes thoroughly before reuse.  
**Eye Contact:** In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.  
**Ingestion:** If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.  
**Note to physician:** Treat symptomatically, no specific antidote. See toxicological information (section 11)

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### SECTION 5 – FIRE FIGHTING MEASURES

#### Extinguishing Media:

**Suitable Extinguishing Media:** Use water spray, fog or foam.

**Unsuitable Extinguishing Media:** None known

**Specific hazards arising from the product:** Not flammable.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: Hydrogen and Hydrogen Fluoride.

#### Advice for fire-fighters:

Not available.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures:

Wear suitable protective clothing. Wear eye/face protection.

**Environmental precautions:** Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

**Methods and materials for containment and cleaning up:** Keep people away from spill. Put on appropriate personal protective equipment. Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a water rinse for final clean-up.

### SECTION 7 – HANDLING AND STORAGE

**Precautions for safe handling:** Do not ingest. Do not get in eyes, on skin, or on clothing. Avoid breathing vapours, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Do not mix with bleach or other chlorinated products, will cause chlorine gas.

**Storage Procedures:** Keep containers closed when not in use. Do not freeze. Store between the following temperatures: 5 to 40°C.

### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	ACGIH TLV	STEL ( 15 min )	OSHA PEL		AIHA WEEL	
	TWA		TWA	Ceiling	8 hour TWA	Short term TWA ©
Fluorosilicic acid	Not available	Not available	Not available		Not available	

ACGIH= American Conference of Governmental Industrial Hygienists. TLV = Threshold Limit Value. TWA = Time-weighted Average. STEL = Short-term Exposure Limit OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA = AIHA Guideline Foundation. WEEL = Workplace Environmental Exposure Limit.

**Appropriate Engineering Control:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual Protection Measure:

**Eye/Face Protection:** Do not get into eyes. Wear chemical safety goggles.

**Skin Protection:** Use protective equipment necessary to prevent skin contact. Rinse with water.

**Respiratory protection:** Not required

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### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear liquid, colourless.
<b>Odour:</b>	Odourless.
<b>Odor Threshold:</b>	Not available
<b>Initial boiling point and boiling range</b>	Not available
<b>pH :</b>	1.5 ( 100 % )
<b>Melting Point:</b>	Not available
<b>Thermal decomposition:</b>	Not available
<b>Flash Point:</b>	Not available
<b>Evaporation Rate:</b>	Not available
<b>Flammability:</b>	Not available
<b>Explosive Limit:</b>	Not available
<b>Upper explosion limit:</b>	Not available
<b>Lower explosion limit:</b>	Not available
<b>Relative Density:</b>	Approx. = 1.08 ( Water = 1 )
<b>Viscosity:</b>	Not available
<b>VOC:</b>	Not available
<b>Solubility in water:</b>	Soluble
<b>Solubility in other solvents:</b>	Not available
<b>Partition coefficient: noctanol/water</b>	Not available
<b>Molecular weight:</b>	Not available
<b>Oxidizing properties:</b>	Not available
<b>Auto ignition temperature</b>	Not available

### SECTION 10 – STABILITY AND REACTIVITY

<b>STABILITY:</b>	Stable
<b>INCOMPATIBILITY:</b>	Reactive or incompatible with bases. Reactive or incompatible with metals. Do not mix with bleach or other chlorinated products - will cause chlorine gas.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	None under normal conditions of storage and use.
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur.
<b>CONDITIONS TO AVOID:</b>	Do not mix with bases.

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### SECTION 11 – TOXICOLOGICAL INFORMATION

Chemical Name	LC50	LD50	LD50 ( dermal )
Fluorosilicic acid	850 - 1.070 mg/m <sup>3</sup> (rat)	Not Available	Not available

**Routes of exposure:** Skin contact, Eye contact, Ingestion.

**Eye contact:** Corrosive to eyes.

**Skin contact.** Corrosive to skin.

**Inhalation:** Irritating to respiratory system

**Ingestion:** Causes burns to mouth, throat and stomach. Chronic low level exposure may result in mottling of teeth, joint stiffness, and weakening of bones.

**Acute toxicity:**

**Eye contact:** No data available.

**Skin contact:** No data available.

**Inhalation:** Not known significant effects.

**Ingestion:** Not known significant effects.

**Germ cell mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic .

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

**Reproductive toxicity:** No evidence of reproductive toxicity or developmental toxicity.

**STOT - single exposure** irritating to respiratory system.

**STOT - Not classified.**

**Aspiration hazard:** Not classified.

### SECTION 12 – ECOLOGICAL CONSIDERATION

**Eco toxicity :** This material may be harmful to aquatic life.

**Bio accumulative potential Inorganic:** The substance has no potential for bioaccumulation.

**Mobility in soil:** Not applicable.

**Other adverse effects:** Not known.

### SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste Disposal:** In accordance with federal, provincial or local government requirements.

### SECTION 14 – TRANSPORT INFORMATION

**TDG Classification:** UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC N.O.S (FLUOROSILICIC ACID)  
CLASS 8 PG III

### SECTION 15 – REGULATORY INFORMATION

Refer to section 2.

### SECTION 16 – OTHER INFORMATION

EFFECTIVE DATE:

April 8, 2016:

Revision 1

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## SOUR PLUS

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