



MATERIAL SAFETY DATA SHEET

SOUR PLUS

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: SOUR PLUS
GENERAL/GENERIC NAME:
PRODUCT USE: Rust removing Sour
EFFECTIVE DATE: JUNE 19, 2014
VENDOR NAME AND ADDRESS: Alpine Specialty Chemicals Ltd.
24 Ronson Drive, Unit 16
Etobicoke, Ontario M9W 1B4
613-996-6666
24 HOUR EMERGENCY NO.

SECTION 2 – COMPOSITION / INFORMATION INGREDIENTS

INGREDIENT	%W/W	CAS.NO	TLV	LD50 / LC50
Hydrofluosilicic Acid	2 - 10	16961-83-4	2.mg/m3	200 mg/kg (guinea pig)
Oxalic Acid	2 – 10	144-62-7	1mg/m3	Oral LD50 (rat): 475 mg/kg

SECTION 3 – HAZARDS IDENTIFICATION

Route of Entry:

Skin Contact: Causes irritation.

Eye Contact: Causes transient irritation.

Inhalation: Mist may cause irritation of the respiratory tract.

Ingestion: Causes irritation to digestive tract.

Effects of Acute Exposure: (see section 11 for Toxicological information).

SECTION 4 – FIRST AID

Eyes: Flush with running water for at least 15 minutes while holding eyelids open. Get medical attention.

Skin Contact: Flush contaminated skin with plenty of soap and water. Remove contaminated clothing. Launder contaminated clothing thoroughly before re-use. Seek medical attention if skin is burned or symptoms continue.

Inhalation: Remove victim to fresh air. Aid in breathing if necessary. If breathing stops, administer artificial respiration. Seek medical attention. Effects may be delayed for a few hours and aggravated by physical exertion.

Ingestion: Give plenty of water to drink to dilute stomach contents. **Do not induce vomiting.** Seek immediate medical attention.

Note to Physician: Risk of permanent corneal injury and possible blindness if splashed into eyes.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: None
FLAMMABLE LIMITS: Not Flammable
AUTO-IGNITION TEMP: NA
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, alcohol foam, water fog, water
SPECIAL FIREFIGHTING PROCEDURES: Wear self contained breathing apparatus and protective clothing.
EXPLOSION DATA: NA
HAZARDOUS COMBUSTION PRODUCTS: NA

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak/Spill: Wear protective equipment and eye protection. Contain spill. Neutralize carefully with soda ash. Collect and contain in suitable disposal containers. Flush area with water, prevent from entering waterways

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SECTION 7 – HANDLING AND STORAGE

Handling Procedures: Avoid all skin contact. Ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid contact with eyes, skin or clothing. Keep container closed when not in use.

Storage Procedures: Keep from freezing. Keep containers closed when not in use.

SECTION 8 – EXPOSURE CONTROLS

PROTECTIVE EQUIPMENT TO BE USED:

RESPIRATORY PROTECTION: NIOSH approved if ventilation is not adequate.
VENTILATION: Local, mechanical exhaust ventilation to maintain vapour concentration below exposure limits.
PROTECTIVE GLOVES: Neoprene or rubber
EYE PROTECTION: Splash proof chemical goggles
OTHER PROTECTIVE MEASURES: Impervious protective clothing.

SECTION 9 – PHYSICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE AND ODOUR: Clear colorless liquid
ODOUR THRESHOLD: ND
SPECIFIC GRAVITY: 1.075
VAPOUR PRESSURE: ND
VAPOUR DENSITY: NP
PH: 1.0
EVAPORATION RATE: 1.0
INITIAL BOILING POINT: 212-220 (F)
WATER SOLUBILITY: Complete
FREEZING POINT: ND

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBILITY: Soft metals, bleach
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen gas, fluorine
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: Excessive heat, sparks and open flame.

SECTION 11 – TOXICOLOGICAL INFORMATION

THRESHOLD LIMIT VALUE: ND
EFFECTS OF ACCUTE EXPOSURE:
SKIN CONTACT: Corrosive. May cause severe burns.
EYE CONTACT: Contact of liquid will cause severe burns. Severe irritant upon contact.
INHALATION: Corrosive.
INGESTION: Corrosive. Respiratory irritation, breathlessness, coughing, chest tightness and difficulty breathing.
EFFECT OF CHRONIC EXPOSURE:
IRRITANCY OF PRODUCT: Corrosive
CARCINOGENICITY: None
SENSITIZATION TO MATERIAL: NA
REPRODUCTION TOXICITY: None
TERATOGENICITY: ND
MUTAGENICITY: ND

SECTION 12 – ECOLOGICAL CONSIDERATION

NA

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SECTION 13 – DISPOSAL CONSIDERATIONS

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

SECTION 14 – TRANSPORT INFORMATION

TDG Classification: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Fluorosilicic Acid)
Class 8 UN 3264 PG III

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: D2B, E

SECTION 16 – OTHER INFORMATION

Prepared by: Lab Personnel

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