

Safety Data Sheet

1. IDENTIFICATION

Product Identifier: LIQ. RUST REMOVING SOUR
Product Code: L539
Other Name(s): LIQ. RUST REMOVING SOUR
Distributed By: not applicable
Recommended Use and Restrictions on Use: laundry sour

Date of Revision: March 01, 2026

Manufactured By: Ostrem Chemical Co. Ltd.
2310 - 80th Avenue NW
Edmonton, Alberta, Canada T6P 1N2
www.ostrem.com

Phone/Emergency Phone:
780-440-1911
Mon. - Fri. 8:00am - 4:30pm MT

2. HAZARDS IDENTIFICATION

Classification of the Mixture: Acute Toxicity - Dermal - Category 2
Acute Toxicity, Inhalation - Category 3
Acute Toxicity, Oral - Category 3
Corrosive to Metals - Category 1
Serious Eye Damage/Irritation - Category 1
Skin Corrosion/Irritation - Category 1

Label Elements:

Hazard Pictogram(s):



Signal Word: DANGER

Hazard Statement(s): Fatal if in contact with skin.
Toxic if inhaled.
Toxic if swallowed.
May be corrosive to metals.
Causes serious eye damage.
Causes severe skin burns and eye damage.

Precautionary Statement(s):

Prevention: Do not breathe dusts or mists.
Wear protective gloves, protective clothing, and eye/face protection.
Do not get in eyes, on skin, or on clothing.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing dust, vapours or spray.
Use only outdoors or in a well-ventilated area.
Keep only in original packaging.

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Response:	<p>IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison centre or physician.</p> <p>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a poison centre or physician.</p> <p>IF ON SKIN: Call a physician immediately. Take victim to hospital immediately. Take off contaminated clothing and shoes immediately. Wash off with plenty of water. First treatment with calcium gluconate paste. Rinse with lukewarm running water. Make sure hospital staff is aware of the unique characteristics of injuries caused by HF exposures and the fact that the systemic toxic effects of the exposure will require prompt serum monitoring of fluorides, calcium, magnesium and sodium, and calcium replacement by infusion.</p> <p>IF SWALLOWED: If conscious, rinse mouth with fresh water, give 1% aqueous calcium gluconate to drink.</p> <p>First aid - Note to Physician: Immediately apply calcium gluconate gel 2.5% and massage into the affected area using rubber gloves; continue to massage while repeatedly applying gel until 15 minutes after pain is relieved. HF-Antidote Gel from IPS Healthcare is recommended as treatment for injuries from hydrofluoric acid.</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison centre or physician.</p> <p>Absorb spillage to prevent material-damage.</p>
Storage:	<p>Store in a well-ventilated place.</p> <p>Keep container tightly closed.</p> <p>Store locked up.</p> <p>Store in a corrosion resistant container with a resistant inner liner.</p>
Disposal:	Dispose of contents/container in accordance with local/regional/national/international regulations.

Physical/health hazards not otherwise classified:

not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Conc. w/w</u>	<u>CAS #</u>	<u>Common Names</u>
hydrogen fluoride (49%)	5 - 10%	7664-39-3	hydrofluoric acid, fluoric acid
ammonium bifluoride	10 - 30%	1341-49-7	

4. FIRST-AID MEASURES

Necessary Measures:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison centre or physician.

Absorb spillage to prevent material-damage.

IF ON SKIN: Call a physician immediately. Take victim to hospital immediately. Take off contaminated clothing and shoes immediately. Wash off with plenty of water. First treatment with calcium gluconate paste. Rinse with lukewarm running water. Make sure hospital staff is aware of the unique characteristics of injuries caused by HF exposures and the fact that the systemic toxic effects of the exposure will require prompt serum monitoring of fluorides, calcium, magnesium and sodium, and calcium replacement by infusion.

IF SWALLOWED: If conscious, rinse mouth with fresh water, give 1% aqueous calcium gluconate to drink.

First aid - Note to Physician: Immediately apply calcium gluconate gel 2.5% and massage into the affected area using rubber gloves; continue to massage while repeatedly applying gel until 15 minutes after pain is relieved.

HF-Antidote Gel from IPS Healthcare is recommended as treatment for injuries from hydrofluoric acid.

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Most important symptoms, both acute and delayed:

Fatal if in contact with skin.
Toxic if inhaled.
Toxic if swallowed.
Causes serious eye damage.
Causes severe skin burns and eye damage.

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

not applicable

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use extinguishing media appropriate for surrounding fire.

Specific hazards arising from the chemical (e.g.: hazardous combustion products):

May liberate carbon monoxide, carbon dioxide and hydrogen gas.

Special protective equipment and precautions for firefighters:

As for surrounding fire. Firefighters should wear full protective clothing and self contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective equipment. See section 8.

Environmental precautions:

Prevent from entering sewers, waterways or low areas.

Methods and materials for containment and cleaning up:

Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

7. HANDLING AND STORAGE

Precautions for safe handling:

Do not breathe dusts or mists.
Do not get in eyes, on skin, or on clothing.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing dust, vapours or spray.
Use only outdoors or in a well-ventilated area.
Keep only in original packaging.
Do not ingest. Avoid contact with eyes, skin and clothing.

Conditions for safe storage, including any incompatibilities:

Store locked up.
Store in a well-ventilated place.
Keep container tightly closed.
Store locked up.
Store in a corrosion resistant container with a resistant inner liner.
Keep out of reach of children. Store in a cool, dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters - Exposure limits:

Ingredient:

hydrogen fluoride (49%)

ammonium bifluoride

Limit:

ACGIH TLV-TWA: 2 ppm Ceiling

Immediately Dangerous to Life or Health: 30 ppm

not available

Appropriate engineering controls:

Provide exhaust ventilation to keep airborne levels below recommended exposure limits.

Respiratory protection:

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If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator.

Other protection:

Wear protective gloves, protective clothing, and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	clear liquid
Colour:	Colourless
Odour:	pungent odour
Melting Point and Freezing Point:	not available
Boiling point, or initial boiling point and boiling range:	not available
Flammability:	not available
Lower and upper explosion limit or lower and upper flammability limit:	not available
Flash point:	not applicable
Auto-ignition temperature:	not available
Decomposition temperature:	not available
pH:	4.1
Kinematic viscosity:	not available
Solubility:	100%
Partition coefficient - n-octanol/water (logarithmic value):	not available
Vapour density:	not available
Density and Relative density:	1.058
Vapour pressure:	not available
Particle Characteristics:	not available

10. STABILITY AND REACTIVITY

Reactivity:

This material is considered to be non-reactive under normal use conditions.

Chemical stability:

Stable.

Possibility of hazardous reactions:

Reacts with metals.

Conditions to avoid (e.g.: static discharge, shock or vibration):

not applicable

Incompatible materials:

Oxidizers / Base

Hazardous decomposition products:

not available

11. TOXICOLOGICAL INFORMATION

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation:	Inhalation: Corrosive! Product may cause severe irritation of the nose, throat and respiratory tract. Repeated and/or prolonged exposures may cause productive cough, running nose, bronchopneumonia, pulmonary edema and reduction of pulmonary function. Excessive contact with powder may cause drying of mucous membranes due to absorption of moisture and oils. In general, long-term exposure to high concentrations of dust may cause increased mucous flow in the nose and respiratory system airways.
Ingestion:	Toxic if swallowed.
Eye contact:	Causes serious eye damage.
Skin contact:	Causes severe skin burns and eye damage.
Skin absorption:	not available

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POTENTIAL CHRONIC HEALTH EFFECTS

Inhalation: not available
Ingestion: not available
Eye contact: not available
Skin contact: not available
Skin absorption: not available

Mutagenicity: not available
Carcinogenicity: This information, if applicable, can be found in Section 2.
Reproductive toxicity: This information, if applicable, can be found in Section 2.
Sensitization of product: This information, if applicable, can be found in Section 2.
Specific Target Organ Toxicity - single exposure: This information, if applicable, can be found in Section 2.
Specific Target Organ Toxicity - repeated exposure: This information, if applicable, can be found in Section 2.

Toxicological Data:

Ingredient:
hydrogen fluoride (49%)

ammonium bifluoride

Data:
Oral LD50: ~5 mg/kg (rat)
Dermal LD50: ~5 mg/kg (rat)
Inhalation LC50: ~0.5 mg/L 4h (rat)
Oral LD50: 60 mg/kg (rat)
Inhalation LC50: 3 mg/L (rat)
Dermal LD50: 50 mg/kg (rat)

Other Toxicological Information on Ingredients:

hydrogen fluoride (49%)

Severe hydrofluoric acid exposure may result in systemic fluoride poisoning. Hydrofluoric acid can deeply penetrate into tissues, causing spontaneous depolarization of the nervous tissue. Excessive amounts can: weaken and degenerate bone structure, cause joint damage, kidney damage, and heart, asthma, nerve, intestinal and rheumatism problems.

12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available): not available
Persistence and degradability: not available
Bioaccumulative potential: not available
Mobility in soil: not available
Other adverse effects: not available
Ecological Information on Ingredients: not available

13. DISPOSAL CONSIDERATIONS

Waste disposal: Disposal of all waste must be done according to local, provincial and federal regulations.

14. TRANSPORT INFORMATION

TDG classification: UN 2922; CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROFLUORIC ACID, AMMONIUM HYDROGENDIFLUORIDE); CLASS 8 (6.1); PG II

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. PREPARATION INFORMATION

Prepared by: Technical Services Department, Ostrem Chemical Co. Ltd., Ph.: 780-440-1911
Date of Preparation: March 01, 2026
Date of Revision: March 01, 2026

This Safety Data Sheet may not be changed or altered in any way without the express knowledge and permission of Ostrem Chemical Co. Ltd.

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