

Safety Data Sheet

1. IDENTIFICATION

Product Identifier: LIQUID SOUR **Date of Revision:** N
Product Code: L528
Other Name(s): S-560
Distributed By: HADDON HOLDINGS LIMITED
Recommended Use and Restrictions on Use: laundry sour
Manufactured By: Ostrem Chemical Co. Ltd. **Phone/Emergency F**
2310 - 80th Avenue NW **780-440-1911**
Edmonton, Alberta, Canada T6P 1N2 **Mon. - Fri. 8:00am -**
www.ostrem.com

2. HAZARDS IDENTIFICATION

Classification of the Mixture: Acute Toxicity - Oral - Category 4
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): Harmful 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.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Keep only in original packaging.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a p
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse sk
contaminated clothing before reuse. Immediately call a poison centre or phys
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
centre or physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
to do. Continue rinsing. Immediately call a poison centre or physician.
Absorb spillage to prevent material-damage.

Storage: Store locked up.
Store in a corrosion resistant container with a resistant inner liner.

Disposal: Dispose of contents/container in accordance with local/regional/national/inten

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 I</u>
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fluorosilicic acid (22-23%)	15 - 40%	16961-83-4	hydrofluor
oxalic acid	5 - 10%	144-62-7	ethanedio

4. FIRST-AID MEASURES

Necessary Measures:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison centre or physician.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash before reuse. Immediately call a poison centre or physician.

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

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

Absorb spillage to prevent material-damage.

Most important symptoms, both acute and delayed:

Harmful 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 oxides of sodium.

Special protective equipment and precautions for firefighters:

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

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 store in suitable container. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up 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.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

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 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:

<u>Ingredient:</u>	<u>Limit:</u>
fluorosilicic acid (22-23%)	ACGIH TLV: 2.5 mg/m ³
oxalic acid	ACGIH STEL: 2 mg/m ³ TLV-TWA: 1 mg/m ³

Appropriate engineering controls:

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

Respiratory protection:

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

Appearance (physical state, colour etc.):	blue liquid
Odour:	not available
Odour threshold:	not available
pH:	0.7; 1% solution: 2.3
Melting/Freezing point:	not available
Initial boiling point and range:	not available
Flash point:	not applicable
Evaporation rate:	not available
Flammability (solid, gas):	not available
Upper/lower flammability or explosive limits:	not available
Vapour pressure:	not available
Vapour density:	not available
Relative density (specific gravity):	1.085
Solubility(ies):	100%
Partition co-efficient: n-octanol/water:	not available
Auto-ignition temperature:	not available
Decomposition temperature:	not available
Viscosity:	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:	Harmful if inhaled.
Ingestion:	Harmful if swallowed.
Eye contact:	Causes serious eye damage.
Skin contact:	Causes severe skin burns and eye damage.
Skin absorption:	not available

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 fo
Reproductive toxicity:	This information, if applicable, can be fo
Sensitization of product:	This information, if applicable, can be fo
Specific Target Organ Toxicity - single exposure:	This information, if applicable, can be fo
Specific Target Organ Toxicity - repeated exposure:	This information, if applicable, can be fo

Toxicological Data:

<u>Ingredient:</u>	<u>Data:</u>
fluorosilicic acid (22-23%)	Oral LD50: 125 mg/kg (rat)
oxalic acid	Oral LD50: 475 mg/kg (rat)

Other Toxicological Information on Ingredients:

fluorosilicic acid (22-23%)

Liquid or vapours can cause burns which may not be apparent for hours. Prolonged exposure ca changes, corrosive effect on mucous membranes, ulceration of nose, throat and bronchial tubes pulmonary edema, fluorosis, coma and death.

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 regu

14. TRANSPORT INFORMATION

TDG classification: UN 1760; CORROSIVE LIQUID, N.O.S. (FLUOROSILICIC ACID, OXALIC ACI

15. REGULATORY INFORMATION

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

16. PREPARATION INFORMATION

Prepared by:	Technical Services Department, Ostrem Chemical Co. Ltd., Ph.: 780-440-191
Date of Preparation:	March 09, 2023
Date of Revision:	March 09, 2023

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

S-560

[Redacted]

March 09, 2023

Phone:

4:30pm MT

[Redacted]

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permission of Ostrem

