

SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier: ULTRA LIQUID SOUR

Date of Revision: February 14, 2017

Product Code: X973

Other name(s):

Distributed by:

Recommended Use and Restrictions on Use:

laundry sour

Manufactured by: BEST Chemicals
2310 - 80 Avenue NW
Edmonton AB T6P 1N2

Phone: 587-754-3283
In Case of Emergency Only, Phone:
CANUTEC at (613) 996-6666

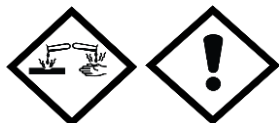
2. HAZARDS IDENTIFICATION

Classification of the Mixture:

Eye Damage/Irritation - Category 1
Skin Corrosion/Irritation - Category 1
Acute Toxicity, Oral - Category 4
Corrosive to Metals - Category 1

Label Elements:

Hazard Pictogram(s):



Signal Word(s):

DANGER

Hazard Statement(s):

Causes severe skin burns and eye damage.
Harmful if swallowed.
May be corrosive to metals.

Precautionary Statement(s):

Prevention: Wash hands thoroughly after handling.
Do not breathe dusts or mists.
Wear protective gloves, protective clothing, and eye/face protection.
Do not eat, drink or smoke when using this product.
Keep only in original packaging.

Response: 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.
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 contaminated clothing before reuse. Immediately call a poison centre or physician.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a poison centre or physician.
Absorb spillage to prevent material-damage.

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

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

HMIS: Health: 3
Flammability: 0
Physical Hazard: 0

Physical/health hazards not otherwise classified:
not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Concentration %</u>	<u>CAS #</u>	<u>Common Name/Synonym(s)</u>
fluorosilicic acid (22-23%)	30-60	16961-83-4	hydrofluorosilicic acid, fluosilicic acid
oxalic acid	3-7	144-62-7	ethanedionic acid

4. FIRST-AID MEASURES

Necessary Measures:

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

Most important symptoms, both acute and delayed:

Causes severe skin burns and eye damage.
Harmful if swallowed.

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. Fire fighters 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:

Wash hands thoroughly after handling.
Do not breathe dusts or mists.
Wear protective gloves, protective clothing, and eye/face protection.
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:

Keep out of reach of children. Store in a cool, dry area.
Store locked up.
Store in a corrosive resistant container with a resistant liner.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters - Exposure limits:

Ingredient:

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.):

	red liquid
Odour:	acidic odour
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):	1.079
Solubility(ies):	complete in water
Partition co-efficient: n-octanol/water:	not available
Auto-ignition temperature:	not available
Decomposition temperature:	not available
Viscosity:	<10 cP

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 bases and metals.

Conditions to avoid (e.g.: static discharge, shock or vibration): not applicable

Incompatible materials: Oxidizers and bases.

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 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

fluorosilicic acid (22-23%)
oxalic acid

Data

Oral LD50: 125 mg/kg (rat)
Oral LD50: 475 mg/kg (rat)

Other Toxicological Information on Ingredients:

Fluorosilicic acid: Liquid or vapours can cause burns which may not be apparent for hours.
Prolonged exposure can result in: bone changes, corrosive effect on mucous membranes, ulceration of nose, throat and bronchial tubes, cough, shock, 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, state and federal regulations.

14. TRANSPORT INFORMATION

DOT classification: UN 1760; CORROSIVE LIQUID, N.O.S. (fluorosilicic acid, oxalic acid); Class 8; PG II

IMDG classification: UN 1760; CORROSIVE LIQUID, N.O.S. (fluorosilicic acid, oxalic acid); Class 8; PG II

TDG classification: UN 1760; CORROSIVE LIQUID, N.O.S. (fluorosilicic acid, oxalic acid); Class 8; PG II

15. REGULATORY INFORMATION

TSCA - Toxic Substance Control Act: All ingredients are listed on the TSCA Inventory.

HMIS Information: Please refer to Section 2.

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, BEST Chemicals, Ph.: (587) 754-3283

Date of Preparation: September 8, 2015

Date of Revision: February 14, 2017

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

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