Safety Data Sheet

1. IDENTIFICATION

Product Identifier: ALUMINUM BRIGHTENER EXTREME
Date of Revision: March 01, 2026
Product Code: A265
Other Name(s): ALUMINUM BRIGHTENER EXTREME
Distributed By: not applicable
Recommended Use and Restrictions on Use: acid brightener

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.

Response:
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.
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.

Storage:
Store in a well-ventilated place.
Keep container tightly closed.
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/international regulations.

Physical/health hazards not otherwise classified:

not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Conc. w/w	CAS #	Common Names
ethoxylated alcohol blend	3 - 7%	68439-46-3	
hydrogen fluoride (49%)	10 - 30%	7664-39-3	hydrofluoric acid, fluoric acid
sulphuric acid	15 - 40%	7664-93-9	

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 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.
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.

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 oxides of sodium.

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 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:	Limit:
ethoxylated alcohol blend	not available
hydrogen fluoride (49%)	ACGIH TLV-TWA: 2 ppm Ceiling Immediately Dangerous to Life or Health: 30 ppm
sulphuric acid	ACGIH TLV-TWA: 0.2 mg/m3; TLV-STEL: 3 mg/m3

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

Physical State:	clear, liquid
Colour:	Colourless
Odour:	pungent odour
Melting Point and Freezing Point:	pas disponible
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:	<1
Kinematic viscosity:	not available
Solubility:	100%
Partition coefficient - n-octanol/water (logarithmic value):	not available
Vapour density:	not available
Density and Relative density:	1.142

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: Toxic if inhaled.
Ingestion: Toxic 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:	Data:
ethoxylated alcohol blend	Oral LD50: 1378 mg/kg (rat)
hydrogen fluoride (49%)	Oral LD50: ~5 mg/kg (rat) Dermal LD50: ~5 mg/kg (rat) Inhalation LC50: ~0.5 mg/L 4h (rat)
sulphuric acid	Oral LD50: 2140 mg/kg (rat) Inhalation LC50: 160 mg/L 4h (mouse)

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, SULPHURIC ACID); CLASS 8 (6.1); PG I

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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