

# Safety Data Sheet

## 1. IDENTIFICATION

**Product Identifier:** A-50 ALUMINUM BRIGHTENER **Date of Revision:** January 31, 2018  
**Product Code:** A266  
**Other Name(s):**  
**Distributed By:**  
**Recommended Use and Restrictions on Use:** acid brightener  
**Manufactured By:** Ostrem Chemical Co. Ltd. **Phone:** 780-440-1911  
2310 - 80th Avenue NW **In Case of Emergency Only, Phone**  
Edmonton, Alberta, Canada T6P 1N2 **CANUTEC:** 613-996-6666  
www.ostrem.com

## 2. HAZARDS IDENTIFICATION

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

**Label Elements:**

Hazard Pictogram(s):



Signal Word: DANGER

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

**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.  
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.

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## Physical/health hazards not otherwise classified:

not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Conc.</u>	<u>CAS #</u>	<u>Common Names</u>
hydrogen fluoride (49%)	5 - 10%	7664-39-3	hydrofluoric acid, fluoric acid
hydrochloric acid (31%)	30 - 60%	7647-01-0	muriatic acid

## 4. FIRST-AID MEASURES

### Necessary Measures:

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.

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.

### Most important symptoms, both acute and delayed:

Causes serious eye damage.

Causes severe skin burns and eye damage.

Toxic if swallowed.

Fatal if in contact with skin.

Toxic if inhaled.

### 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:

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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.  
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:

hydrogen fluoride (49%)

hydrochloric acid (31%)

#### Limit:

ACGIH TLV-TWA: 2 ppm Ceiling

Immediately Dangerous to Life or Health: 30 ppm

ACGIH TLV-C: 2 ppm

### 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.):	clear, colourless liquid
Odour:	pungent odour
Odour threshold:	not available
pH:	<1
Melting/Freezing point:	pas disponible
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):	1.053
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

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**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:** Fatal if in contact with skin.  
**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:  
hydrogen fluoride (49%)

Data:  
Oral LD50: ~5 mg/kg (rat)  
Dermal LD50: ~5 mg/kg (rat)  
Inhalation LC50: ~0.5 mg/L 4h (rat)  
Oral LD50: 700 mg/kg (rat)

hydrochloric acid (31%)

**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

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**TDG classification:** UN 2922; CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROCHLORIC ACID, HYDROFLUORIC ACID); 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:** January 25, 2017

**Date of Revision:** January 31, 2018

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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