

1. IDENTIFICATION

Product Identifier

Product Name ACCUBRITE
Chemical Name Acidic detergent solution

Recommended use of the chemical and restrictions on use

Recommended use Aluminum Brightener
Restrictions on use For industrial use only. Personnel must receive specific training before using this product.

Supplier details

West Penetone Inc. 11411-160 Street
 Edmonton, AB,
 T5M3T7
 Tel: 780-454-3919

Emergency Telephone Number

(780) 454-3919 (Mon – Fri, 8 AM – 4:30 PM, Mountain time)
 CANUTEC 1-613-996-6666 Internationally or 1-888-226-8832 – North America FOR 24 HOUR TRANSPORT EMERGENCY

2. HAZARDS IDENTIFICATION

Classification

Corrosive to metals	Category 1
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Acute toxicity, oral	Category 3
Acute toxicity, dermal	Category 3
Acute toxicity, inhalation (vapour)	Category 3
Specific target organ toxicity, single exposure (target organs- respiratory system)	Category 3

Label Elements

DANGER

Hazard Statements

May be corrosive to metals.
 Causes severe skin burns and eye damage.
 Causes serious eye damage.
 Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.
 May cause respiratory tract irritation.



Precautionary Statements - Prevention

Keep only in original container.
 Do not breathe mists, vapour or spray.
 Wash face, hands, and any exposed skin thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Do not eat, drink or smoke while using this product.
 Use only outdoors or in a well-ventilated area.

Precautionary Statements - Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Specific treatment: Drink one or two glasses of water or milk.
 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with soap and water/shower. Specific measures: apply calcium gluconate gel to the exposed area. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Specific treatment: Administer oxygen if shortness of breath develops.

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

Absorb spillage to prevent material damage.

Precautionary Statements - Storage

Store locked up in a well-ventilated area in a closed, corrosion resistant container.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Sulfuric acid	7664-93-9	10 – 30*
Hydrofluoric acid	7664-39-3	3 – 7*
Lauryldimethylamine oxide	1643-20-5	1 – 5*

*Actual concentration is withheld as a trade secret

4. FIRST AID MEASURES

- Ingestion:** Rinse mouth with water and call a POISON CENTER or doctor/physician immediately. Do not induce vomiting unless directed by medical personnel. Drink a glass of milk or water if able to swallow. Administer a fluoride binding substance: chewable calcium carbonate tablets (e.g., Tums™) or a cup of milk of magnesia or a liquid antacid (e.g., Maalox™).
- Skin contact:** Take off contaminated clothing and immediately wash skin with water for 15 minutes. Severe burns will result without prompt water washing. After washing with water apply calcium gluconate gel. Gel or slurry must be continuously massaged into the affected area to be effective. Seek medical attention if you feel unwell.
- Inhalation:** If difficulties occur after mist/vapors/spray has been inhaled, remove person to fresh air and keep comfortable for breathing. Administer oxygen if shortness of breath develops. Always use a barrier or bag-valve-mask device for assisted ventilation. Call a POISON CENTER or doctor/physician.
- Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician immediately.

Most important symptoms and effects, both acute and delayed.

Contact with eyes may cause serious irritation leading to discomfort or pain, redness, swelling, blurred vision and blindness. Contact with skin may cause severe burns or irritation with local redness or a white discoloration. Exposure of more than 1% of the body's surface area may lead to systemic toxicity. Ingestion may lead to nausea; vomiting abdominal pain; local burns to the mouth, throat, and esophagus; inflammation and bleeding of the stomach and inflammation of the pancreas. Even minor ingestions of hydrogen fluoride/hydrofluoric acid can be fatal.

Indication of any immediate medical attention and special treatment needed.

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None.

Specific hazards arising from the chemical.

During fire, gases hazardous to health may be formed including oxides of carbon, nitrogen, and sulfur and other irritating gases.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment.

Environmental Precautions

Avoid discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up.

Contain and solidify with inert absorbent materials. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water. For large spills, stop flow of material, prevent product from entering drains, and pump off product where this is without risk and possible. Proceed as above. Avoid contact with skin or inhalation during clean up.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Avoid inhaling or contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Storage: Store away from incompatible materials. Keep from freezing

Incompatible Materials: Strong oxidizing materials, metals, glass, and alkalis.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric acid CAS 7664-93-9	TWA: 0.2 mg/m ³	Not Available	Not available
Hydrofluoric acid CAS 7664-39-3	TWA: 0.5 ppm	Not Available	Not Available

Appropriate engineering controls

Engineering Controls: Ensure adequate ventilation. Ensure product does not enter drains.

Individual protection measures, such as personal protective equipment

Eye/face Protection: Safety glasses with side shields or goggles. Use a face-shield where mode of handling increases risk of splashing.

Skin and body protection: Wear protective gloves and protective clothing.

Respiratory Protection: Wear respiratory protection if ventilation is inadequate.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Yellow liquid

ODOR:

Pungent

ODOR THRESHOLD:

Not available

pH:

0.5 – 2.0 (10 % v/v in water)

MELTING POINT / FREEZING POINT:

Approx. 0°C

BOILING POINT/BOILING RANGE:

Approx. 100°C

FLASH POINT:

None

EVAPORATION RATE, water = 1

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FLAMMABILITY (SOLID, GAS):

Not applicable

VAPOR PRESSURE, mm Hg AT 20°C:

Not available

VAPOR DENSITY (Air = 1):

Not available

RELATIVE DENSITY AT 20°C:

1.125-1.145

SOLUBILITY IN WATER:

Complete

PARTITION COEFFICIENT, N-OCTANOL/WATER:

Not available

AUTO-IGNITION TEMPERATURE:

None

DECOMPOSITION TEMPERATURE:

Not available

VISCOSITY:

Not available

FLAMMABLE LIMITS:**UPPER:** Not applicable **LOWER:** Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions of storage and use. The product will react with most metals, especially aluminum, magnesium, zinc and other soft metal alloys with the generation of hydrogen.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid

Store away from incompatible materials. Keep from freezing.

Incompatible Materials

Strong oxidizing materials, metals, glass, and alkalis.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition can lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

ATE_{mix} – LD50 oral <50 mg/kg, LD50 dermal <50 mg/kg, LC50 inhalation <2 mg/L

Acute toxicity oral – Category 3

Acute toxicity dermal – Category 2

Acute toxicity inhalation – Category 3

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulfuric acid CAS 7664-93-9	2140 mg/kg (rat)	Not listed, corrosive to skin	Not listed
Hydrofluoric acid CAS 7664-39-3	10.6 mg/kg (calculated)	10.6 mg/kg (calculated)	1.25 mg/L (calculated) 4 h
Lauryl dimethylamine oxide CAS 1643-20-5	>2000 mg/kg (rat)	>2000 mg/kg (rabbit)	Not listed

Information on likely sources of exposure

Ingestion	Can cause severe burns to mouth, throat and stomach if ingested. Can cause systemic toxicity.
Skin corrosion/irritation	Can cause severe skin burns or skin irritation. Can cause systemic toxicity.
Inhalation	Can cause severe irritation of the respiratory system and systemic toxicity.
Serious eye damage/irritation	Can cause serious eye irritation or eye damage leading to temporary or permanent blindness.

Delayed and immediate effects and chronic effects from short and long-term exposure

Respiratory or skin sensitization	None known
Germ cell mutagenicity	None known.
Carcinogenicity	None known.
Reproductive toxicity	None known.
STOT - single exposure	None known.
Aspiration Hazard	None known.

Symptoms related to the physical, chemical and toxicological characteristics.

Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcaemia., Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., necrosis of the skin, Material can cause severe burns and blistering which may not be immediately painful or visible. The full extent of tissue damage may not exhibit itself for 12-24 hours after exposure.

12. ECOLOGICAL INFORMATION

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available

Other adverse effects

Components of this product are hazardous to aquatic organisms. Do not release untreated into natural waters.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

UN Number:	2922
UN Proper Shipping Name:	Corrosive liquid, acidic, toxic (hydrofluoric and sulfuric acid mixture)
Transport Hazard Class(es)	
Class:	TDG: 8 (6.1) US DOT: 8 (6.1) IMDG: 8 (6.1)
Label(s):	8 (6.1)
Packing Group:	II
Marine Pollutant:	Yes
Special precautions for user:	None established

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not determined.

15. REGULATORY INFORMATION

Canada (DSL/NDSL)

All ingredients contained in this product are in compliance with the Canadian Environmental Protection Act and are listed on the DSL or are exempt.

16. OTHER INFORMATION

<u>Preparation Date</u>	April 13, 2023
<u>Revision Date</u>	Not applicable
<u>Revision Note</u>	Not applicable

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet