

SECTION 1 – IDENTIFICATION

NAME / CODE: ALUMINET / 1903XX

USE: Acid cleaner for brick, cement, aluminum and stainless steel

MANUFACTURER: B.O.D. CHEMICALS INC.
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SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS: Corrosive to metals, category 1

HEALTH HAZARDS: Acute toxicity, oral, category 3
Skin corrosion / Irritation, category 1
Serious eye damage / Eye irritation, category 1

ENVIRONMENTAL HAZARDS: Not available

GHS LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD: DANGER

HAZARD STATEMENTS: May be corrosive to metals.
Toxic if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye damage.

PRECAUTIONARY STATEMENTS

PREVENTION: Keep only in original container. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathing vapours. Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE: Absorb spillage to prevent material damage. **If swallowed:** Immediately call a POISON CENTER or doctor/physician. Specific treatment (see supplemental first aid on the label). Rinse mouth. Do NOT induce vomiting. **If on skin (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin for 20 minutes with water/shower. 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 (see supplemental first aid on the label). **If in eyes:** Rinse immediately and cautiously with water for 20-25 minutes. Remove contact lenses, if present and easy to do. Continue rinsing, keeping eyelids open. Immediately call a POISON CENTER or doctor/physician.

STORAGE / DISPOSAL: Store in corrosive resistant container. Store locked up. Dispose of contents/container in accordance with local regulations (see 13th section).

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS	% (W/W)
Sulphuric acid	007664-93-9	10 - 30

Hydrofluoric acid	007664-39-3	3 - 7
Ethylene glycol butyl ether	000111-76-2	3 - 7
Lauramine oxide	001643-20-5	1 - 5

SECTION 4 – FIRST AID MEASURES

SKIN:	Remove contaminated clothing. Rinse skin with water for at least 20 minutes/shower. Apply a calcium gluconate gel to the affected area. Consult a physician if irritation persists.
EYES:	Rinse cautiously with water for 20-25 minutes, keeping eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
INGESTION:	Rinse mouth. Do not induce vomiting. Drink 3 to 4 glasses of water. Do not give anything by mouth if victim is unconscious. Call a physician immediately.
INHALATION:	Breathe fresh air. Give artificial respiration if necessary. Consult a physician if discomforts persist.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:	Skin: Burning and severe skin damage, redness of the skin. Eyes: Causes serious eye damage. Symptoms may include burning, tingling, watery eyes, redness, swelling and blurred vision. This could result in permanent eye damage.
TO PHYSICIAN:	The product contains hydrofluoric acid (HF). Please make sure that 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. 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.

SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:	Water spray, carbon dioxide, chemical powder, foam.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use water jet as an extinguisher, as this will spread the fire.
SPECIFIC HAZARDS:	Not flammable. Under fire conditions, toxic and corrosive fumes are emitted. The product does not burn itself but may decompose upon heating to produce carbon monoxide and dioxide, corrosive and/or toxic fumes.
SPECIAL FIRE FIGHTING PROCEDURES:	Wear protective clothing and self-contained breathing apparatus if necessary.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	Ventilate enclosed areas. Avoid contact of the product with eyes and skin. Do not breathe vapours. Wear gloves, safety goggles and respirator if needed. Prevent discharge in sewers. Keep away from incompatible materials.
ENVIRONMENTAL PRECAUTIONS:	Avoid the spillage or runoff entering drains, sewers or watercourses.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:	Wear protective clothing. Control spill to prevent runoff into sewers. Cover with inert absorbent material and recover in suitable containers. Sweep and rinse with water.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Avoid contact of the product with eyes and skin. Do not breathe vapours. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	Keep containers closed, in fresh, dry and well ventilated area, away from incompatible materials.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT	CAS	VALUE	REGULATION
Sulphuric acid	7664-93-9	VPEM: 1 mg/m ³	RSST
Ethylene glycol butyl ether	111-76-2	VPEM: 97 mg/m ³	RSST
Hydrofluoric acid	7664-39-3	TWA: 0.5 ppm	ACGIH

APPROPRIATE ENGINEERING CONTROL: Normal ventilation

PERSONAL PROTECTIVE EQUIPMENT



SKIN: Protective clothing. Impermeable gloves.

EYES: Eye protection/face protection.

RESPIRATORY: Respirator with a full face mask. Use NIOSH approved respiratory protection.

HYGIENE MEASURES: Wash hands after handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / FORM: Clear liquid

COLOR: Colorless

ODOR: Strong

ODOR THRESHOLD: Not available

pH: < 1

MELTING POINT / FREEZING POINT (°C): < 0

BOILING POINT (°C): > 100

FLASH POINT (°C): Not available

EVAPORATION RATE: Not available

EXPLOSIVE LIMITS: Not available

VAPOUR PRESSURE: Not available

VAPOUR DENSITY: Not available

DENSITY (kg/L): 1.11 - 1.13

WATER SOLUBILITY: Complete

PARTITION COEFFICIENT N-OCTANOL / WATER: Not available

AUTOIGNITION TEMPERATURE (°C): Not available

DECOMPOSITION TEMPERATURE (°C): Not available

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY: No dangerous reaction known under conditions of normal use.

CHEMICAL STABILITY: Stable at normal ambient temperatures and when used as recommended.

HAZARDOUS REACTIONS: Hazardous polymerisation does not occur.

CONDITIONS TO AVOID: Contact with incompatible materials.

INCOMPATIBILITY: Chlorinated materials (bleach), alkalis, soft metals (Al, Zn, Sn), nitrates, glass.

HAZARDOUS DECOMPOSITION PRODUCTS: Not available.

SECTION 11 – TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

SKIN: Causes severe skin burns.

EYES: Causes serious eye damage.

INHALATION: May cause an irritation.

INGESTION: Toxic if swallowed.

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE ORAL TOXICITY: Toxic if swallowed. LD50 (rat): 70 mg/kg

ACUTE DERMAL TOXICITY: No health effects (normal conditions of use).

ACUTE INHALATION TOXICITY: No health effects (normal conditions of use).

DELAYED AND IMMEDIATE EFFECTS

SKIN CORROSION / IRRITATION: Causes severe skin burns.

SERIOUS EYE DAMAGE / EYE IRRITATION: Causes serious eye damage.

RESPIRATORY SENSITIZATION: Not expected to cause respiratory sensitization.

SKIN SENSITIZATION: Not expected to cause skin sensitization.

GERMINAL CELL MUTAGENICITY: No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.

CARCINOGENICITY: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.

REPRODUCTIVE TOXICITY: No potential reproductive toxicity.

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE: Not classified.

SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE: Not classified.

ASPIRATION HAZARD: Not classified.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY: Sulphuric acid
LC50, *Gambusia affinis*, 42 mg/l, 96h
EC50, *Daphnia magna*, 29 mg/l, 24h

Hydrofluoric acid
LC50, Fish, 51 mg/l, 96h
EC50, *Daphnia magna*, 26 mg/l, 48h

PERSISTENCE AND DEGRADABILITY: Not available

BIOACCUMULATIVE POTENTIAL: Not available

MOBILITY IN SOIL: Not available

OTHER ADVERSE EFFECTS: Not available

SECTION 13 – DISPOSAL CONSIDERATIONS

- DISPOSAL INSTRUCTIONS:** Collect in appropriate containers and recycle or dispose the product at a licensed waste disposal site or in accordance with local regulations. Avoid the spillage or runoff entering drains, sewers or watercourses.
- HAZARDOUS WASTE CODE:** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
- CONTAMINATED PACKAGING:** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 – TRANSPORT INFORMATION

- TDG:** UN1760, CORROSIVE LIQUID, N.O.S., (Hydrofluoric acid), Class 8, PG II
- SPECIAL PRECAUTIONS FOR USER:** Read safety instructions, SDS and emergency procedures before handling.

SECTION 15 – REGULATORY INFORMATION

Ingredients included on inventory of DSL (Canada), REACH, TSCA (USA)

SECTION 16 – OTHER INFORMATION

- PRODUCT NAME:** ALUMINET
- CODE:** 1903XX
- IN CASE OF ACCIDENTAL SPILL:** CANUTEC (Canada): 1 (613) 996-6666
- PREPARED BY:** B.O.D. CHEMICALS INC.
- PHONE:** (450) 443-5556
- DATE:** March 10th, 2019

B.O.D. CHEMICALS INC. assume no responsibility for damages or physical injuries resulting in the use of this product. The user recognizes the risk in the use of this product and must consult and respect directions and dangers of this product.