



SECTION 1 – IDENTIFICATION

NAME / CODE: AL-2000 / 0211XX

USE: Liquid detergent for dishwasher (formula for aluminum)

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SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS: Corrosive to metals, category 1

HEALTH HAZARDS: Acute toxicity, oral, category 4
Skin corrosion/irritation, category 1
Serious eye damage/eye irritation - Serious eye damage, category 1
Carcinogenicity, category 2

ENVIRONMENTAL HAZARDS: Not available

GHS LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD: DANGER

HAZARD STATEMENTS: May be corrosive to metals.
Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye damage.
Suspected of causing cancer.

PRECAUTIONARY STATEMENTS

PREVENTION: Keep only in original container. Wash skin 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

RESPONSE: Absorb spillage to prevent material damage. **If swallowed:** Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. **If on skin (or hair):** Take off immediately all contaminated clothing. Rinse skin with water for at least 20 minutes/shower. Wash contaminated clothing before reuse. **If inhaled:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid on the label). **If in eyes:** Rinse cautiously with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing, keeping eyelids open. Immediately call a POISON CENTER/doctor. **If exposed or concerned:** Get medical advice/attention.

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)
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Potassium hydroxide	001310-58-3	7 - 13
Sodium silicate	001344-09-8	5 - 10
Sodium nitrilotriacetate	018662-53-8	3 - 7
Sodium polyacrylate	009003-04-7	1 - 5

SECTION 4 – FIRST AID MEASURES

SKIN:	Remove contaminated clothing. Rinse skin with water for at least 20 minutes/shower. Consult a physician if irritation persists.
EYES:	Rinse cautiously with water for 15-20 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 or milk. 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:	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
TO PHYSICIAN:	Treat symptoms.

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. Do not use dry extinguishing media that contains ammonium compounds.
SPECIFIC HAZARDS:	Not flammable. Under fire conditions, toxic and corrosive fumes emitted. Substance itself does not burn but may decompose upon heating to produce 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.
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

No occupational exposure limits known.

APPROPRIATE ENGINEERING CONTROL: Normal ventilation

PERSONAL PROTECTIVE EQUIPMENT



SKIN:	Protective clothing. Impermeable gloves.
EYES:	Safety goggles.
RESPIRATORY:	If ventilation is inadequate, suitable respiratory protection must be worn.
HYGIENE MEASURES:	Wash hands after handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / FORM:	Clear liquid
COLOR:	Colorless
ODOR:	Odorless
ODOR THRESHOLD:	Not available
pH:	13 - 14
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):	1.20 - 1.22
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:	Acids, reducing agents, oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Not available.

SECTION 11 – TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

SKIN:	Causes severe skin burns.
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EYES: Causes serious eye damage.

INHALATION: May cause an irritation.

INGESTION: Harmful if swallowed.

NUMERIC VALUES OF TOXICITY

ACUTE ORAL TOXICITY: LD50 (rat): 1277 mg/kg

ACUTE DERMAL TOXICITY: Not available. No health effects (normal conditions of use).

ACUTE INHALATION TOXICITY: Not available. 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: Suspected of causing cancer.

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: Sodium polyacrylate
LC50, Bluegill sunfish (*Lepomis macrochirus*), 96 h, >1,000 mg/l
EC50, *Daphnia magna* (Water flea), 48 h, >1,000 mg/l

Sodium nitrilotriacetate
LC50, *Pimephales promelas* > 100 mg/l - 96 h

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 and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain in sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional /national /international regulations.

HAZARDOUS WASTE CODE: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

WASTE FROM RESIDUES / Dispose of in accordance with local regulations. Empty containers or liners may retain some

UNUSED PRODUCTS: product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

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., (Potassium hydroxide), 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: AL-2000

CODE: 0211XX

PREPARED BY: B.O.D. CHEMICALS INC.

PHONE: (450) 443-5556

DATE: November 8th, 2018

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.