
SECTION 1 – IDENTIFICATION

NAME: **BIO-ALKALI**

USE: Alkaline additive for laundry

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 4
Skin corrosion/irritation, category 1
Serious eye damage/eye irritation - Serious eye damage, category 1

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.

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.

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

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)
Sodium hydroxide	001310-73-2	10 - 30
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 an extinguisher containing halogenated agents.
SPECIFIC HAZARDS OF THE HAZARDOUS PRODUCT:	The product is not flammable. In case of fire, toxic and corrosive fumes are emitted. The product does not burn itself but can decompose during heating to produce carbon monoxide and dioxide and 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 fume/gas/mist/vapours/spray. 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. Ventilate enclosed areas.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:

INGREDIENT	CAS	VALUE	REGULATION
Sodium hydroxide	1310-73-2	VP: 2mg/m ³	RSST

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:	Liquid
COLOR:	Red
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):	1.31 - 1.33
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:	The following materials may react violently with the product: Acids. Reacts with water and organic materials with evolution of heat. Contact with metal may release flammable hydrogen gas.
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, soft metals (Al, Zn, Sn).
HAZARDOUS DECOMPOSITION PRODUCTS:	Under fire conditions: carbon oxides.

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.

TOXICOLOGICAL CHARACTERISTICS:

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE ORAL TOXICITY: LD50 (oral, rat): 641 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).
SKIN CORROSION / IRRITATION: Causes severe skin burns.
SERIOUS EYE DAMAGE / EYE IRRITATION: Causes severe eye burns. 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 or potential carcinogen.
REPRODUCTIVE TOXICITY: No relevant data found.
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 hydroxide
LC50 Bluegill, 99mg/l - 48h
LC50 Mosquitofish, 125 mg/l - 96 h

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

PERSISTENCE AND DEGRADABILITY: Not available.
BIOACCUMULATIVE POTENTIAL: Not available.
MOBILITY IN SOIL: No relevant data found.
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 /
UNUSED PRODUCTS:**

Dispose of in accordance with local regulations. Empty containers or liners may retain some 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 / DOT: UN1760, CORROSIVE LIQUID, N.O.S., (Sodium 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: BIO-ALKALI

**IN CASE OF
ACCIDENTAL SPILL:** CANUTEC (Canada): 1 (613) 996-6666

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

PHONE: (450) 443-5556

DATE: October 9th, 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.