



Alouette Ware Wash Chemicals Inc.

#2130 - 1850 Savage Road, RICHMOND, BC Tel: 604.233.7722

24 HOUR NUMBER: CANUTEC 613-996-6666

Safety Data Sheet Biokleen

Section 01 - Product And Company Identification

| | |
|-------------------------------------|--|
| Product Identifier | Biokleen Degreaser |
| Other Means of Identification | None |
| Product Use and Restrictions on Use | An alkaline, heavy duty, multi-application cleaner and detergent. |
| Initial Supplier Identifier | Alouette Warewash Chemicals Inc. 1851 Savage Road, Richmond, BC, V6V 1R1 Phone: 1(604) 233-7722 |

Prepared By

24-Hour Emergency Phone

Section 02 - Hazard Identification

GHS-Classification

| | |
|-------------------------------|-------------|
| Skin Corrosion/Irritation | Category 1A |
| Serious Eye Damage/Irritation | Category 1 |
| STOT-Single Exposure | Category 3 |

Physical Hazards

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|---------------------|------------|
| Corrosive to Metals | Category 1 |
|---------------------|------------|

Danger

Hazards Statements

H314 – Causes severe skin burns and eye damage.

H335 – May cause respiratory irritation.

H290 – May be corrosive to metals.

Pictograms



Precautionary Statements

P234 – Keep only in original container.

P403 + P233 – Store in a well-ventilated place. Keep container tightly closed.

P405 – Store locked up.

P260 – Do not breathe mist, vapours or spray.

P271 – Use only outdoors or in a well-ventilated area.

P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P280 – Wear protective gloves, protective clothing, eye protection, and face protection.

P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 – Wash contaminated clothing before reuse.

P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 – Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P390 – Absorb spillage to prevent material damage.

P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 03 - Composition / Information on Ingredients

| Chemical Name | CAS Number | Weight % | Unique Identifiers |
|---|------------|----------|--------------------|
| Sodium Metasilicate | 6834-92-0 | 1-15% | |
| Sodium Hydroxide | 1310-73-2 | 1-15% | |
| Water and/or ingredients not classified as hazardous under the Hazardous Products Regulations | | ≥ 70% | |

Section 04 - First Aid Measures

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| Inhalation | Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention if difficulty in breathing persists. |
| Skin Contact / Absorption | Remove contaminated clothing. Rinse skin with lukewarm, gently flowing water for at least 60 minutes. DO NOT INTERRUPT FLUSHING. Seek immediate medical attention. Completely decontaminate clothing, shoes and leather good before re-use or discard. |
| Eye Contact | Immediately rinse eye(s) with lukewarm, gently flowing water for at least 60 minutes, while holding the eyelid(s) open to ensure complete irrigation of the eye tissue. If a contact lens is present, remove only if easy to do so. Neutral saline solution may be used as soon as it is available. Seek immediate medical attention. |
| Ingestion | NEVER give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Seek immediate medical attention. |
| Additional Information | Not Available |

Section 05 - Fire Fighting Measures

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| Suitable Extinguishing Media | Use extinguishing media suitable for surrounding fire. Use water to cool fire exposed containers to prevent vapour build-up and rupture. Water may also be used to flush spills away from dangerous exposure. |
| Unsuitable Extinguishing Media | Carbon dioxide. |
| Specific Hazards Arising From the Chemical | In an aqueous solution, caustic can react with metals to produce hydrogen gas which may accumulate to explosive and flammable concentrations. |

Special Protective Equipment and Precautions for Fire-Fighters Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Further Information Not Available

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.

Environmental Precautions Prevent material from entering sewers or waterways.

Methods and Materials for Containment and Cleaning Up Solutions should be contained by diking with inert material such as sand or earth. Solution can be recovered or carefully diluted with water and cautiously neutralized with acids such as acetic acid or hydrochloric acid.
LARGE SPILLS: Contact fire and emergency services and supplier for advice.

Section 07 - Handling and Storage

Precautions for Safe Handling This material is EXTREMELY CORROSIVE. Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

Conditions for Safe Storage Store in a cool, dry, well-ventilated place. Keep container tightly closed and away from incompatible materials. Take measures to ensure storage area cannot be contaminated with water.

Incompatibilities Metals, strong acids, organic halogen compounds and organic nitro compounds.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

| Component | Regulation | Type of Listing | Value |
|------------------|------------|-----------------|--------------------|
| Sodium hydroxide | ACGIH | TLV-C | 2mg/m ³ |
| | OSHA | PEL-C | 2mg/m ³ |
| | OSHA | PEL-T-TWA | 2mg/m ³ |

Engineering Control(s)

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

Protective Equipment

Eyes/Face Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Hand Protection Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Skin and Body Protection Body suits, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.

Respiratory Protection

NIOSH RECOMMENDATIONS FOR SODIUM HYDROXIDE CONCENTRATIONS IN AIR:

Up to 10mg/m³: (APF=25) Any supplied-air respirator operated in a continuous-flow mode. Any powered air-purifying respirator with a high-efficiency particulate filter. (APF=50) Any air-purifying, full-face respiratory with an N100, R100, or P100 filter. Any self-contained breathing apparatus with a full face piece. Any supplied-air respirator with a full face piece.

Emergency or planned entry into unknown concentrations or IDLH conditions: (APF=10,000) Any self-contained breathing apparatus that has a full face piece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus.

Escape: (APF=50) Any air-purifying, full-face piece respirator with an N100, R100, or P100 filter. Any appropriate escape-type, self-contained breathing apparatus.

Thermal Hazards

Not Available

Section 09 - Physical and Chemical Properties

Appearance

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|-----------------|---|
| Physical State | Liquid |
| Colour | Clear and slight orange colour |
| Odour | Slight cleaner odours above the open liquid |
| Odour Threshold | Not Available |

Property

| | |
|---|------------------|
| pH | 13 |
| Melting Point/Freezing Point | 0°C |
| Initial Boiling Point and Boiling Range | 119°C |
| Flash Point | Not Available |
| Evaporation Rate | Not Available |
| Flammability | Non-flammable |
| Upper Flammable Limit | Not Available |
| Lower Flammable Limit | Not Available |
| Vapour Pressure (mm Hg, 20°C) | Not Available |
| Vapour Density (Air=1) | Not Available |
| Relative Density | 1.02 g/mL |
| Solubility(ies) | Soluble in water |

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|---|---------------|
| Partition Coefficient: n-octanol/water | Not Available |
| Auto-ignition Temperature | Not Available |
| Decomposition Temperature | Not Available |
| Viscosity | Not Available |
| Explosive Properties | Not Available |
| Specific Gravity (Water=1) | 1.015 |
| % Volatiles by Volume | Not Available |
| Formula | Not Available |
| Molecular Weight | Not Available |

Section 10 - Stability and Reactivity

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|---|--|
| Reactivity | Not Available |
| Stability | Stable. |
| Possibility of Hazardous Reactions | In an aqueous solution, caustic can react with metals to produce hydrogen gas which may accumulate to explosive and flammable concentration. |
| Conditions to Avoid | Contact with soft metals produce hydrogen gas, which can form flammable or explosive mixtures in air. Product may absorb carbon dioxide gas from the atmosphere or other sources, and form sodium carbonate. May splatter upon contact with water. |
| Incompatible Materials | Metals, strong acids, organic halogen compounds and organic nitro compounds. |
| Hazardous Decomposition Products | Not Available |

Section 11 - Toxicological Information

Acute Toxicity Estimate

| Component | Oral LD₅₀ | Dermal LD₅₀ | Inhalation LC₅₀ |
|--------------------|-----------------------------|-------------------------------|-----------------------------------|
| Biokleen Degreaser | 22.9 g/kg | 8.3 g/kg | 57.5 mg/L |

This product has been classified in accordance with the Hazardous Products Regulations using ATE formula documented in the GHS standard.

Chronic Toxicity – Carcinogenicity

| Component | IARC |
|--------------------|--|
| Biokleen Degreaser | None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen. |

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| Skin Corrosion/Irritation | Corrosive. Capable of producing severe burns, blisters, ulcers and permanent scarring. |
| Ingestion | Corrosive. May cause pain and severe vomiting, burns of the throat and esophagus, and perforation of the esophagus. May be fatal. |
| Inhalation | Generation of vapours or mists may cause severe irritation of the respiratory tract. |

| | |
|--|--|
| Serious Eye Damage/Irritation | Corrosive. Capable of producing severe eye damage and permanent damage, including blindness. |
| Respiratory or Skin Sensitization | Not Available |
| Germ Cell Mutagenicity | Not Available |
| Reproductive Toxicity | Not Available |
| STOT-Single Exposure | May cause respiratory irritation. |
| STOT-Repeated Exposure | Not Available |
| Aspiration Hazard | Not Available |
| Synergistic Materials | Not Available |

Section 12 – Ecological Information

Ecotoxicity

| Component | Toxicity to Algae | Toxicity to Fish | Toxicity to Daphnia and Other Aquatic Invertebrates |
|------------------------------|---|--|---|
| Sodium hydroxide | Not Available | LC ₅₀ (Gambusia affinis, 96hr): 125mg/L | EC ₅₀ (Ceriodaphnia dubia, 48hr): 40.38mg/L |
| Nonyl phenyl ethoxylate | LC ₅₀ (Green algae, 96hr): 12mg/L | LC ₅₀ (Lepomis macrochirus, 96hr): 1.3mg/L | EC ₅₀ (Daphnia magna, 48hr): 14mg/L |
| Sodium metasilicate | Not Available | Not Available | EC ₅₀ (Daphnia magna, 48hr): 33.53mg/L |
| Biodegradability | Not Available | | |
| Bioaccumulation | Not Available | | |
| Mobility | Not Available | | |
| Other Adverse Effects | Not Available | | |

Section 13 – Disposal Considerations

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|--|---|
| Waste From Residues/Unused Products | Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act. |
| Contaminated Packaging | Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act. |

Section 14 – Transport Information

| | | |
|-----------------------------------|--|-------------------------------|
| UN Number | UN3266 | |
| UN Proper Shipping Name | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide) | |
| Transport Hazard Class(es) | 8 | |
| Packaging Group | III | |
| Environmental Hazards | Not listed as a marine pollutant under Canadian TDG Regulations, schedule III. | |
| Special Precautions | Not Available | |
| Transport in Bulk | Not Available | |
| Additional Information | <u>Packing Group</u> | <u>Limited Quantity Index</u> |
| | I | 0 |
| | II | 1 L |
| | III | 5 L |

TDG

Other

Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 – Other Information

Date of Preparation: January 16,2020

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Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

References:

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA
- 7) PAN

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