



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 Clean Wash

Section 01 - Product And Company Identification

Product Identifier	Clean Wash
Other Means of Identification	Detergent
Product Use and Restrictions on Use	Commercial Dishmachine Detergent.
Initial Supplier Identifier	Alouette Warewash Chemicals Inc. 1851 Savage Road, Richmond, BC, V6V 1R1 Phone: 1(604) 233-7722
Prepared By	Alouette Warewash Chemicals Inc.
24-Hour Emergency Phone	CANUTEC 613-996-6666

Section 02 - Hazard Identification

GHS-Classification

Skin Corrosion/Irritation Category 1A

Serious Eye Damage/Irritation Category 1

Physical Hazards

Corrosive to Metals Category 1

Danger

Hazards Statements

H314 – Causes severe skin burns and eye damage.

H290 – May be corrosive to metals.

Pictograms



Precautionary Statements

P234 – Keep only in original container.

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

P260 – Do not breathe mist, vapors or spray.

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

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

P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin.
 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.
 P405 – Store locked up.
 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 Hydroxide	1310-73-2	5-20%	
Tetrasodium EDTA	64-02-8	1-15%	
Water and/or ingredients not classified as hazardous under the Hazardous Products Regulations		Balance	

Section 04 - First Aid Measures

Inhalation	If symptoms are experienced, remove source of contamination or move victim to fresh air. Seek immediate medical attention.
Skin Contact / Absorption	Remove contaminated clothing. Immediately rinse skin with lukewarm, gently flowing water for at least 60 minutes. Seek immediate medical attention. Completely decontaminate clothing, shoes and leather goods before re-use or discard.
Eye Contact	Immediately flush 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 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

Suitable Extinguishing Media	Does not burn or support combustion. Use extinguishing media suitable for surrounding fire and compatible with sodium hydroxide.
Unsuitable Extinguishing Media	Carbon dioxide.
Specific Hazards Arising From the Chemical	Toxic sodium oxide and carbon oxides may be generated by thermal decomposition at elevated temperatures. Closed containers may rupture violently when heated.
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.
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Environmental Precautions Do not allow entry into sewers or waterways.

Methods and Materials for Containment and Cleaning Up Contain spill or leak. Shovel or sweep up dry sodium hydroxide for recycling or disposal. Neutralize the final traces and flush area with water. Solutions can 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 and HIGHLY REACTIVE. 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 area. Keep quantity stored as small as possible. Store away from incompatible materials.

Incompatibilities Sulphides, cyanides, fluorides, carbides, silicates and strong oxidizing agents.

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

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 Guidelines for sodium hydroxide solutions, 30-70%:
RECOMMENDED (resistance to breakthrough longer than hours): Butyl rubber, natural rubber, neoprene rubber, nitril rubber, polyethylene, polyvinyl chloride, Viton(TM), Viton(TM)/Butyl rubber, Barrier (PE/PA/PE), silver shield/4H(TM) (polyethylene/ethylene vinyl alcohol), Trelchem(TM) HPS, Trelchem(TM) VPS, Tychem(TM) SL (Saranex(TM)), Tychem(TM) CPF3, Tychem(TM) F, Tychem(TM) BR/LV, Tychem(TM) Responder(TM), Tychem(TM) TK.

NOT RECOMMENDED for use (resistance to breakthrough less than 1 hour): Polyvinyl alcohol.

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/m ³ : (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 piece respirator 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.
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Thermal Hazards	Not Available
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Section 09 - Physical and Chemical Properties

Appearance

Physical State	Liquid
Colour	Light red
Odour	Caustic-like
Odour Threshold	Not Available

Property

pH	14
Melting Point/Freezing Point	<0°C
Initial Boiling Point and Boiling Range	>100°C
Flash Point	Not Applicable
Evaporation Rate	Not Available
Flammability	Non-flammable
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20°C)	Not Available
Vapour Density (Air=1)	Not Available
Relative Density	Not Available
Solubility(ies)	Soluble in water
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Available
Viscosity	Not Available
Explosive Properties	None

Specific Gravity (Water=1)	1.218
% Volatiles by Volume	Not Available
Formula	Mixture
Molecular Weight	Not Available

Section 10 - Stability and Reactivity

Reactivity	Not Available
Stability	Normally stable if kept dry. Rapidly absorbs carbon dioxide and water from the air forming sodium carbonate.
Possibility of Hazardous Reactions	None reported.
Conditions to Avoid	Contact with soft metals.
Incompatible Materials	Sulphides, cyanides, fluorides, carbides, silicates and strong oxidizing agents.
Hazardous Decomposition Products	Sodium oxide fumes may be generated by thermal decomposition at high temperatures.

Section 11 - Toxicological Information

Acute Toxicity Estimate

Component	Oral LD₅₀	Dermal LD₅₀	Inhalation LC₅₀
Econo Detergent	920 mg/kg	9,000 mg/kg	3,111 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
Econo Detergent	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.

Skin Corrosion/Irritation	Corrosive. Capable of producing severe burns, blisters, ulcers and permanent scarring. Sodium hydroxide can penetrate to deeper layers of skin and corrosion will continue until removed. Burns may not be immediately painful; onset of pain may be delayed minute to hours.
Ingestion	Ingestion can result in burns to the lips, tongue, throat, esophagus and stomach; abdominal pain; nausea; vomiting; diarrhea and death.
Inhalation	Aerosols may cause severe irritation of the respiratory tract. Exposure to high concentrations can result in pulmonary edema.
Serious Eye Damage/Irritation	Corrosive. Capable of producing severe burns and permanent injury.
Respiratory or Skin Sensitization	Not known as a skin or respiratory sensitizer.
Germ Cell Mutagenicity	Available evidence does not suggest that sodium hydroxide is a mutagen.
Reproductive Toxicity	Not known to cause reproductive toxicity
STOT-Single Exposure	Can cause respiratory irritation.

STOT-Repeated Exposure	Long-term exposure to dilute solution of corrosive materials can cause chronic skin irritation.
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
Biodegradability	Sodium hydroxide does not biodegrade.		
Bioaccumulation	Sodium hydroxide does not bioaccumulate.		
Mobility	Sodium hydroxide is very mobile in soil and soluble in water.		
Other Adverse Effects	Sodium hydroxide is toxic to aquatic life through an immediate raise in pH to toxic levels.		

Section 13 – Disposal Considerations

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	UN1824	
UN Proper Shipping Name	SODIUM HYDROXIDE SOLUTION	
Transport Hazard Class(es)	8	
Packaging Group	II	
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>
	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.
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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

Preparation Date

June 23, 2023

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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