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## Section 01 - Identification

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<b>Product Identifier</b>	Econo Dish Detergent
<b>Other Means of Identification</b>	None
<b>Product Use and Restrictions on Use</b>	Detergent.
<b>Initial Supplier Identifier</b>	Advance Chemicals Ltd. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
<b>Prepared By</b>	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
<b>24-Hour Emergency Phone</b>	Phone: 1 (306) 664 – 2522

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## Section 02 - Hazard Identification

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### GHS-Classification

<b>Skin Corrosion/Irritation</b>	Category 1A
<b>Serious Eye Damage/Irritation</b>	Category 1

### Physical Hazards

<b>Corrosive to Metals</b>	Category 1
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### **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.

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## Section 03 - Composition / Information on Ingredients

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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	

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## Section 04 - First Aid Measures

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<b>Inhalation</b>	If symptoms are experienced, remove source of contamination or move victim to fresh air. Seek immediate medical attention.
<b>Skin Contact / Absorption</b>	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.
<b>Eye Contact</b>	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.
<b>Ingestion</b>	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.
<b>Additional Information</b>	Not Available

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## Section 05 - Fire Fighting Measures

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<b>Suitable Extinguishing Media</b>	Does not burn or support combustion. Use extinguishing media suitable for surrounding fire and compatible with sodium hydroxide.
<b>Unsuitable Extinguishing Media</b>	Carbon dioxide.
<b>Specific Hazards Arising From the Chemical</b>	Toxic sodium oxide and carbon oxides may be generated by thermal decomposition at elevated temperatures. Closed containers may rupture violently when heated.
<b>Special Protective Equipment and Precautions for Fire-Fighters</b>	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
<b>Further Information</b>	Not Available

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## Section 06 - Accidental Release Measures

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<b>Personal Precautions / Protective Equipment / Emergency Procedures</b>	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.

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## Section 07 - Handling and Storage

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**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.

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## Section 08 - Exposure Controls and Personal Protection

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### Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Sodium hydroxide	ACGIH	TLV-C	2mg/m <sup>3</sup>
	OSHA	PEL-C	2mg/m <sup>3</sup>

### 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<sup>3</sup>:

(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.

**Thermal Hazards**

Not Available

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**Section 09 - Physical and Chemical Properties**

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**Appearance**

<b>Physical State</b>	Liquid
<b>Colour</b>	Light red
<b>Odour</b>	Caustic-like
<b>Odour Threshold</b>	Not Available

**Property**

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

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

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## Section 10 - Stability and Reactivity

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

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## Section 11 - Toxicological Information

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### Acute Toxicity Estimate

<b>Component</b>	<b>Oral LD<sub>50</sub></b>	<b>Dermal LD<sub>50</sub></b>	<b>Inhalation LC<sub>50</sub></b>
Econo Dish 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

<b>Component</b>	<b>IARC</b>
Econo Dish 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.

<b>Skin Corrosion/Irritation</b>	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.
<b>Ingestion</b>	Ingestion can result in burns to the lips, tongue, throat, esophagus and stomach; abdominal pain; nausea; vomiting; diarrhea and death.
<b>Inhalation</b>	Aerosols may cause severe irritation of the respiratory tract. Exposure to high concentrations can result in pulmonary edema.
<b>Serious Eye Damage/Irritation</b>	Corrosive. Capable of producing severe burns and permanent injury.
<b>Respiratory or Skin Sensitization</b>	Not known as a skin or respiratory sensitizer.
<b>Germ Cell Mutagenicity</b>	Available evidence does not suggest that sodium hydroxide is a mutagen.
<b>Reproductive Toxicity</b>	Not known to cause reproductive toxicity
<b>STOT-Single Exposure</b>	Can cause respiratory irritation.

<b>STOT-Repeated Exposure</b>	Long-term exposure to dilute solution of corrosive materials can cause chronic skin irritation.
<b>Aspiration Hazard</b>	Not Available
<b>Synergistic Materials</b>	Not Available

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## Section 12 – Ecological Information

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### Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Sodium Hydroxide	Not Available	LC <sub>50</sub> (Gambusia affinis, 96hr): 125mg/L	EC <sub>50</sub> (Ceriodaphnia dubia, 48hr): 40.38mg/L
<b>Biodegradability</b>	Sodium hydroxide does not biodegrade.		
<b>Bioaccumulation</b>	Sodium hydroxide does not bioaccumulate.		
<b>Mobility</b>	Sodium hydroxide is very mobile in soil and soluble in water.		
<b>Other Adverse Effects</b>	Sodium hydroxide is toxic to aquatic life through an immediate raise in pH to toxic levels.		

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## Section 13 – Disposal Considerations

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

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## Section 14 – Transport Information

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<b>UN Number</b>	UN1824	
<b>UN Proper Shipping Name</b>	SODIUM HYDROXIDE SOLUTION	
<b>Transport Hazard Class(es)</b>	8	
<b>Packaging Group</b>	II	
<b>Environmental Hazards</b>	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.	
<b>Special Precautions</b>	Not Available	
<b>Transport in Bulk</b>	Not Available	
<b>Additional Information</b>	<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.

**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.

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## Section 15 – Regulatory Information

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**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.**

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## Section 16 – Other Information

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**Preparation Date**

August 19, 2016

**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**

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

**References:**

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

**Advance Chemicals Ltd. - Locations**

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