



# Safety Data Sheet

## Section 01 - Identification

---

Product Identifier	Powerfoam
Other Means of Identification	None
Product Use and Restrictions on Use	Used as a cleaner/degreaser in food plant areas.
Initial Supplier Identifier	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
Prepared By	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
24-Hour Emergency Phone	Phone: 1 (306) 664 – 2522

---

## Section 02 - Hazard Identification

---

### GHS-Classification

Skin Corrosion/Irritation	Category 1A
Serious Eye Damage/Irritation	Category 1
Acute Toxicity-Oral	Category 4

### Physical Hazards

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

### Danger

### Hazards Statements

- H290 – May be corrosive to metals.
- H314 – Causes severe skin burns and eye damage.
- H302 – Harmful if swallowed.

### Pictograms



### Precautionary Statements

- P234 – Keep only in original container.
- P260 – Do not breathe mist, vapours or spray.
- P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P270 – Do not eat, drink or smoke when using this product.

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.  
 P363 – Wash contaminated clothing before reuse.  
 P301 +P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 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.  
 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	7-13%	
N,N-Dimethyl-N-dodecylamine oxide	1643-20-5	5-10%	

---

## Section 04 - First Aid Measures

---

<b>Inhalation</b>	If symptoms are experienced, remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.
<b>Skin Contact / Absorption</b>	Remove contaminated clothing, shoes and leather goods. 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 goods before re-use or discard.
<b>Eye Contact</b>	Contact lenses should never be worn when working with this product. Flush immediately with water for at least 60 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Neutral saline solution 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

---

## Section 05 - Fire Fighting Measures

---

<b>Suitable Extinguishing Media</b>	Water fog or foam extinguishers.
<b>Unsuitable Extinguishing Media</b>	Not Available
<b>Specific Hazards Arising From the Chemical</b>	Carbon oxides and sulphur dioxide.
<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

---

## 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 from entering sewers or waterways.

**Methods and Materials for Containment and Cleaning Up** Neutralize minor spills with dilute acid before washing away with plenty of water.

---

## 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 cool area above freezing point away from incompatibles.

**Incompatibilities** Oxidizing materials, acids.

---

## Section 08 - Exposure Controls and Personal Protection

---

### Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Sodium Hydroxide 50%	ACGIH	TLV-Ceiling	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** Body suite, 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

**Respiratory Protection** Approved respiratory protection should be used if chance of mist will be formed.

**Thermal Hazards** Not Available

---

## Section 09 - Physical and Chemical Properties

---

### Appearance

Physical State	Liquid
Colour	Clear, colourless
Odour	Not Available
Odour Threshold	Not Available

### Property

pH	Strong base
Melting Point/Freezing Point	Not Available
Initial Boiling Point and Boiling Range	Not Available
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 Applicable
Vapour Density (Air=1)	Not Applicable
Relative Density	Not Available
Solubility(ies)	Completely soluble
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Available
Viscosity	Not Available
Explosive Properties	Not Available
Specific Gravity (Water=1)	1.08
% Volatiles by Volume	Not Available
Formula	Not Available
Molecular Weight	Not Available

---

## Section 10 - Stability and Reactivity

---

Reactivity	Not Available
Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	Not Available
Conditions to Avoid	Not Available
Incompatible Materials	Oxidizing materials, acids.
Hazardous Decomposition Products	Not Available

---

## Section 11 - Toxicological Information

---

### Acute Toxicity Estimate

Component	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Powerfoam	1021 mg/kg	9346 mg/kg	46110000 mg/L

The ATE of the mixture was determined by calculation from the ATE values for all relevant ingredients in reference to the formula stated in the GHS.

### Chronic Toxicity – Carcinogenicity

Component	IARC
Powerfoam	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>	Causes irritation and can cause burns.
<b>Ingestion</b>	Causes burning in mouth, throat and stomach.
<b>Inhalation</b>	Mist may cause irritation of respiratory tract and inflammation of lungs.
<b>Serious Eye Damage/Irritation</b>	Can cause severe irritation to the eyes. May cause ulceration of the eye.
<b>Respiratory or Skin Sensitization</b>	Not Available
<b>Germ Cell Mutagenicity</b>	Not known to be mutagenic.
<b>Reproductive Toxicity</b>	Not Available
<b>STOT-Single Exposure</b>	Mist may cause irritation of respiratory tract and inflammation of lungs.
<b>STOT-Repeated Exposure</b>	Not Available
<b>Aspiration Hazard</b>	Not Available
<b>Synergistic Materials</b>	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 <sub>50</sub> (Oncorhynchus mykiss, 96hr): 45.4mg/L	EC <sub>50</sub> (Ceriodaphnia dubia, 48hr): 40.38mg/L

<b>Biodegradability</b>	Not Available
<b>Bioaccumulation</b>	Potential for bioaccumulation is low.
<b>Mobility</b>	Very high mobility in soil.
<b>Other Adverse Effects</b>	Not Available

---

## Section 13 – Disposal Considerations

---

<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.

---

## Section 14 – Transport Information

---

<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.

---

## 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** August 31, 2015

**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<sup>®</sup> 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

**ClearTech Industries Inc. - Locations**

Corporate Head Office: 1500 Quebec Avenue, Saskatoon, SK, S7K 1V7

Phone: 1(306) 664 – 2522

Fax: 1(888) 281-8109

[www.cleartech.ca](http://www.cleartech.ca)

**24 Hour Emergency Number - All Locations – 1(306) 664-2522**