



# MATERIAL SAFETY DATA SHEET

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Company Name</b> Nu-Calgon Wholesaler, Inc.	<b>Phone Number</b> (314) 469-7000 / (800) 554-5499	<b>CHEMTREC</b> (800) 424-9300		
<b>Street Address</b> 2008 Altom Court	<b>City</b> St. Louis	<b>State</b> MO	<b>Postal Code</b> 63146-4151	<b>Last Update</b> 1/25/07
<b>Product Name</b> Nu-Brite	<b>Product Number</b> 4291	<b>Product Use</b> Coil Cleaner/Degreaser		<b>EPA Registration #</b> N/A

## SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<b>Hazardous Ingredients</b>	<b>% By Wt.</b>	<b>CAS Number</b>	<b>TLV</b>	<b>PEL</b>
Sodium Hydroxide (Caustic Soda)	20-30%	1310-73-2	2mg/M3 (TWA/STEL)	2 mg/M3
Nonionic Surfactant	1-10%	Proprietary	None Established	None Established

## SECTION 3 – HAZARD IDENTIFICATION

**Emergency Overview:** CORROSIVE LIQUID. Contains Sodium Hydroxide. Do not get in eyes, on skin or clothing. Avoid breathing spray or mist. Use only with adequate personal protection equipment.

### **Potential Health Effects**

**Eyes:** Prolonged contact with eyes will cause severe irritation, possibly burns and permanent damage.

**Skin:** Contact with skin can cause severe irritation with pain, possibly produce severe chemical burns and destroy tissues; irritation may be delayed.

**Ingestion:** Harmful or fatal if swallowed - causes severe burns of the mouth, throat and stomach if ingested.

**Inhalation:** Inhalation of generated mists or spray may cause respiratory irritation or chemical burns of mouth, throat, and stomach.

**Chronic Exposure:** Chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis.

**Carcinogenicity:** None

**Medical Conditions Aggravated by Exposure:** An existing dermatitis and respiratory illnesses.

## SECTION 4 – FIRST AID MEASURES

**Eyes:** Flush eyes with water for at least 30 minutes and call a physician immediately. Speed of action is essential.

**Skin:** Remove contaminated clothing. Wash with large amounts of soap and water. If skin still feels slippery or if irritation persists, continue washing. Consult a physician in the case of any prolonged irritation..

**Ingestion:** Do not induce vomiting. Immediately give large quantities of water or (preferably) milk and call a physician. Speed of action is essential.

**Inhalation:** Remove to fresh air. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.

## SECTION 5 – FIREFIGHTING MEASURES

**Flash Point:** None to Boiling °F

**Autoignition Temp:** N/A°C/N/A°F

**Hazardous Products of Combustion:** Burning may produce oxides of carbon and other substances.

**Flammable Limits in Air:** N/A

**Extinguishing Media:** This product is not combustible. Water spray, foam, CO<sub>2</sub>, or dry chemicals may be used in areas where this product is stored.

**Fire and Explosion Hazards:** None

**Special Firefighting Procedures:** Do not enter confined fire spaces without protective clothing and a self-contained air supply.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Spill or Leak:** CORROSIVE LIQUID. Before attempting clean up, refer to personal protection information. Do not touch or walk through spilled material. Stop leak if you can without risk. Dike ahead of large spills to prevent run-off. Mop, pump or take up with sand or other inert absorbent and reclaim into containers for reuse, recycle or proper disposal.

## SECTION 7 – HANDLING AND STORAGE

**Handling Procedures and Equipment:** CORROSIVE MATERIAL. Avoid contact with corrosion sensitive metals, leather and wood. Do not get in eyes, on skin or clothing. Sprays and generated mists can be dangerous. Use only according to dilution instructions and with adequate protective clothing.

**Storage Requirements:** CORROSIVE MATERIAL. Keep container closed when not in use. DOT Class: Corrosive liquid, basic, inorganic, n.o.s. (contains sodium hydroxide), 8, UN3266, PG-II. KEEP OUT OF REACH OF CHILDREN. Store away from acids and oxidizing materials.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** Specific use conditions (spraying/confined spaces) where regulatory limits for NaOH are exceeded may require local exhaust ventilation to prevent release of mist &/or vapors into work environment. If ventilation is not adequate, use NIOSH/MSHA approved respirator with alkaline mist/gas cartridge & full face piece.

**Eye Protection:** Close fitting safety glasses/goggles/ face shield depending upon conditions of use.

**Protective Clothing:** Impervious protective clothing appropriate to minimize contact (ie: rubber boots, apron, faceshield) especially where sprayback/misting conditions exist. Rubber protective gloves.

**Exposure Guidelines:** NaOH TLV = 2mg/M3. Eye wash station and safety shower in handling area.

**Specific Engineering Controls (such as ventilation, enclosed process):** Insure adequate ventilation to control NaOH airborne concentration below TLV of 2Mg/M3. Eye wash station and safety shower in handling area.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Form:</b> Liquid	<b>Freezing Point:</b> ~0°C/~32~0°F	<b>% Volatile by Weight:</b> ~76%
<b>Color:</b> Blue	<b>Vapor Density [air =1]:</b> Not Determined	<b>Evaporation Rate:</b> (vs. H2O): About the same.
<b>Odor:</b> No distinct odor	<b>Vapor Pressure:</b> Not Determined	<b>Specific Gravity:</b> (H2O=1.0): 1.252 (+/- 0.005)
<b>Boiling Point:</b> 100°C/212°F	<b>Solubility in Water:</b> Complete	<b>pH (concentrate):</b> 10% pH=13.3 (+/- 0.5)

## SECTION 10 – STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Hazardous Polymerization:** None

**Incompatibilities:** Strong acids/oxidizers. Do not mix with chlorinated detergents (bleach).

**Reactive Conditions to avoid:** Do not mix with chlorinated detergents (bleach) or any other chemicals.

**Decomposition Products:** Burning may produce oxides of carbon and other substances.

## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Hazardous Ingredients</b>	<b>CAS #</b>	<b>EINECS #</b>	<b>LD 50 of Ingredient (Specify Species)</b>	<b>LC50 of Ingredient (Specify Species)</b>
Sodium Hydroxide	1310-73-2	No Data.	1350 mg/kg (Oral ; Rat)	358 mg/L (Fathead Minnow)
Nonionic Surfactant	Proprietary	No Data.	>5.0 g / kg (Oral ; Rat)	Not Determined

## SECTION 12 – ECOLOGICAL INFORMATION

<b>Hazardous Ingredients</b>	<b>Aquatic Toxicity Data</b>
Sodium Hydroxide	LC50 (96 hr.) (fathead minnow) : 358 mg/L
Nonionic Surfactant	Not Determined

### SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste Disposal:** Dispose of in an approved waste facility according to Federal, State and local regulations.

### SECTION 14 – TRANSPORTATION INFORMATION

**Special Shipping Information:** No Data.

<u>Purview</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
<b>DOT</b> (Land)	Corrosive liquid, basic, inorganic, n.o.s. (contains sodium hydroxide)	UN3266	II	8
<b>IMO</b> (Water)	No Data.	No Data.	No Data.	No Data.
<b>ICAO</b> (Air)	No Data.	No Data.	No Data.	No Data.

### SECTION 15 – REGULATORY INFORMATION

<b>WHMIS Classification:</b> (Workplace Hazardous Material Information System)	Class E - Corrosive Material
<b>SARA Title III:</b> (Superfund Amendments & Reauthorization Act)	Contains no Section 313 listed substances subject to reporting requirements.
<b>OSHA:</b> (Occupational Safety & Health Administration)	OHSA Hazardous - Corrosive Liquid. Acute & Chronic Hazard.
<b>TSCA:</b> (Toxic Substance Control Act)	All ingredients are TSCA registered.
<b>VOC:</b> (volatile Organic Compounds)	Less than 1%
<b>CPR:</b> (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.
<b>EINECS:</b> (European Inventory of Existing Commercial Chemical Substances)	No Data.
<b>DSL / NDSL:</b> (Canadian Domestic Substance List)(Non-Domestic Substance List)	Not all ingredients within this product are on the DSL and/or NDSL.
<b>CERCLA:</b> (Comprehensive Response Compensation & Liability Act)	RQ = >5,000 lbs (NaOH)
<b>IDL:</b> (Canadian Ingredient Disclosure List)	Sodium hydroxide is listed on the IDL.
<b>NFPA (HMIS) Rating:</b> (Hazardous Materials Identification System)	Health = 3 Flammability = 0 Reactivity = 1

### SECTION 16 – OTHER INFORMATION

No Data.

The information contained herein is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herein.