



# Safety Data Sheet

Issue Date: 22-Oct-2013

Revision Date: 28-Oct-2013

Version 1

## 1. IDENTIFICATION

**Product Identifier****Product Name** Alka-Brite Plus**Other means of identification****Part Number** 4120-01, 4120-08.**UN/ID No** UN3266**Recommended use of the chemical and restrictions on use****Recommended Use** Coil cleaner/degreaser. For professional use only.**Details of the supplier of the safety data sheet****Supplier Address**Nu-Calgon  
2008 Altom Court  
St. Louis, MO 63146  
www.nucalgon.com**Emergency Telephone Number****Company Phone Number** (314) 469-7000

(800) 554-5499

**Emergency Telephone (24 hr)** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**Appearance** Brown liquid**Physical State** Liquid**Odor** Bland**Classification**

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

**Signal Word**

Danger

**Hazard Statements**

Causes severe skin burns and eye damage

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary Statements - Response**

Immediately call a poison center or doctor/physician

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

Immediately call a poison center or doctor/physician

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

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Immediately call a poison center or doctor/physician

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### **Unknown Acute Toxicity**

4.3% of the mixture consists of ingredient(s) of unknown toxicity

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS No</b>	<b>Weight-%</b>
Sodium hydroxide	1310-73-2	15-25

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## **4. FIRST-AID MEASURES**

### **First Aid Measures**

<b>Eye Contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
<b>Skin Contact</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
<b>Ingestion</b>	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

### **Most important symptoms and effects**

<b>Symptoms</b>	Causes severe skin burns and eye damage.
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### **Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

### Specific Hazards Arising from the Chemical

Material is corrosive.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment as required.

**Environmental Precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Keep out of the reach of children.

**Incompatible Materials** Acids. Oxidizing agents. Bleach. Do not mix with other chemicals or cleaners.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.

### Individual protection measures, such as personal protective equipment

<b>Eye/Face Protection</b>	Wear approved safety goggles where a splash hazard exists.
<b>Skin and Body Protection</b>	Wear suitable protective clothing.
<b>Respiratory Protection</b>	Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.
<b>General Hygiene Considerations</b>	Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Bland
<b>Appearance</b>	Brown liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Brown		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
<b>pH</b>	12.7 (1% in water) 14.0 (concentrate)		
<b>Melting Point/Freezing Point</b>	Not determined		
<b>Boiling Point/Boiling Range</b>	100 °C / 212 °F	IBP	
<b>Flash Point</b>	None to boiling	Tag Closed Cup	
<b>Evaporation Rate</b>	Equal to water		
<b>Flammability (Solid, Gas)</b>	Liquid-not applicable		
<b>Upper Flammability Limits</b>	Not determined		
<b>Lower Flammability Limit</b>	Not determined		
<b>Vapor Pressure</b>	Not determined		
<b>Vapor Density</b>	Not determined		
<b>Specific Gravity</b>	1.24		
<b>Water Solubility</b>	Soluble in water		
<b>Solubility in other solvents</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Auto-ignition Temperature</b>	Not determined		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Water thin (<5 cps)		
<b>Explosive Properties</b>	Not determined		
<b>Oxidizing Properties</b>	Not determined		
<b>VOC Content (%)</b>	None		
<b>Density</b>	10.36 lb/gal		

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
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### Conditions to Avoid

Keep out of reach of children.

**Incompatible Materials**

Acids. Oxidizing agents. Bleach. Do not mix with other chemicals or cleaners.

**Hazardous Decomposition Products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information**

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Do not taste or swallow.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-
Sodium hydroxide 1310-73-2	-	= 1350 mg/kg ( Rabbit )	-

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity**

Not determined

**Unknown Acute Toxicity** 4.3% of the mixture consists of ingredient(s) of unknown toxicity.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium hydroxide 1310-73-2		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static		

**Persistence/Degradability**

Biodegradable.

**Bioaccumulation**

Not determined.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

Chemical Name	California Hazardous Waste Status
Sodium hydroxide 1310-73-2	Toxic Corrosive

**14. TRANSPORT INFORMATION****Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. When shipped domestically by ground in containers of 1 liter or less this material may be reclassified as "Limited Quantity" in accordance with DOT regulation 49CFR173.154. Please see 49CFR172.500 for appropriate transportation placarding and 49CFR172.400 for appropriate transportation labeling.

**DOT**

UN/ID No	UN3266
Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide)
Hazard Class	8
Packing Group	II

**IATA**

UN/ID No	UN3266
Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide)
Hazard Class	8
Packing Group	II

**IMDG**

UN/ID No	UN3266
Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide)
Hazard Class	8
Packing Group	II

## 15. REGULATORY INFORMATION

### International Inventories

Not determined

#### **Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

### US Federal Regulations

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hydroxide 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide 1310-73-2 ( 15-25 )	1000 lb			X

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium hydroxide 1310-73-2	X	X	X

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	3	0	0	Cor
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	3	0	0	X

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Revision Date: 28-Oct-2013  
Revision Note: New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**





# MATERIAL SAFETY DATA SHEET

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<u>Company Name</u> Nu-Calgon Wholesaler, Inc.	<u>Phone Number</u> (314) 469-7000 / (800) 554-5499		<u>CHEMTREC</u> (800) 424-9300	
<u>Street Address</u> 2008 Altom Court	<u>City</u> St. Louis	<u>State</u> MO	<u>Postal Code</u> 63146-4151	<u>Last Update</u> 01/25/07
<u>Product Name</u> Alka-brite plus	<u>Product Number</u> 4120	<u>Product Use</u> Coil Cleaner/Degreaser		<u>EPA Registration #</u> 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)	15 - 25%	1310-73-2	2mg/M3 (TWA/STEL)	2 mg/M3
Nonionic Surfactant	1 - 8%	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, CO2, 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> ~75%
<b>Color:</b> Brown	<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): 1.26 (+/- 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)	OHS A Hazardous - Corrosive Liquid.
<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)	All ingredients are listed on the Canadian DSL
<b>CERCLA:</b> (Comprehensive Response Compensation & Liability Act)	RQ = >5,000 lbs (NaOH)
<b>IDL:</b> (Canadian Ingredient Disclosure List)	Sodium hydroxide is listed.
<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.