#### MATERIAL SAFETY DATA SHEET



## 1. Product and Company Identification

Product Name NU-BRITE (4291)

CAS # Mixture

Product use Coil Cleaner / Degreaser

Manufacturer Nu-Calgon
2008 Altom Court

St. Louis, MO 63146 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

#### 2. Hazards Identification

Emergency overview DANGER

CAUSES EYE BURNS. CAUSES SKIN BURNS.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Causes chemical burns. May cause blindness.

**Skin** Causes chemical burns. Harmful contact may not cause immediate pain.

**Inhalation** May cause respiratory tract irritation or chemical burns.

Ingestion Harmful if swallowed. Causes chemical burns to mouth, throat and stomach.

Target organs Eyes. Respiratory system. Skin.

**Chronic effects** Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

Signs and symptoms The product causes burns of eyes, skin and mucous membranes.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

environmental concerns.

# 3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Sodium hydroxide	1310-73-2	10 - 30
Alkyl polyglycoside	110615-47-9	1 - 5

#### 4. First Aid Measures

First aid procedures

Inhalation

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention immediately.

Skin contact Immediately flush with cool water for 15 minutes while removing contaminated clothing

and shoes. Discard or wash well before reuse. Obtain medical advice immediately.

If symptoms develop move victim to fresh air. If symptoms persist, obtain medical  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

attention.

**Ingestion**Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce

risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing.

Obtain medical attention.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that

medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Use of an impervious apron is recommended. Keep out of reach of

children.

# 5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media Dry chemical. Water spray. Carbon dioxide. Foam.

#18522 Page 1 of 6 Issue date 02-Jun-2011

Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

**Hazardous combustion products** 

**Explosion data** 

**Exposure limits** 

May include and are not limited to: Oxides of carbon.

Sensitivity to mechanical impact No. Sensitivity to static discharge No.

6	Acc	identa	l Release	<b>Measures</b>
v.	$\neg$	iuciila	ı itcicasc	Micasul cs

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not

touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions** Do not discharge into lakes, streams, ponds or public waters.

Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements

or confined areas.

**Methods for cleaning up**Before attempting clean up, refer to hazard data given above. Small spills may be

absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency

containers. Prevent large spills from entering sewers or waterways. Contact emergen services and supplier for advice. Never return spills to original containers for re-use.

# 7. Handling and Storage

**Handling** Do not get in eyes, on skin or on clothing. Use good industrial hygiene practices in

handling this material.

Keep container tightly closed. Use only with adequate ventilation.

Wash thoroughly after handling. Avoid breathing vapors or mists of this product.

Storage Keep out of the reach of children. Store in a closed container away from incompatible

materials.

## 8. Exposure Controls / Personal Protection

ngredient(s)	Exposure Limits

Alkyl polyglycoside

ACGIH-TLV

Not established

OSHA-PEL

Not established

Sodium hydroxide ACGIH-TLV
Ceiling: 2 mg/m3

OSHA-PEL TWA: 2 mg/m3

**Engineering controls** General ventilation normally adequate.

Personal protective equipment

**Eye / face protection** Wear chemical goggles.

Hand protectionRubber gloves. Confirm with a reputable supplier first.Skin and body protectionAs required by employer code. Rubber apron recommended.

**Respiratory protection** Avoid breathing mists or vapors.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Use good industrial hygiene practices in handling this material. When using do not eat or

drink. Wash hands before breaks and immediately after handling the product.

# 9. Physical and Chemical Properties

Appearance	Liquid.
Color	Blue
Form	Liquid

**General hygiene considerations** 

Odor Characteristic, Mild Odor threshold Not available

Physical state Liquid

14 (Concentrate) pН Not available **Melting point** 32.00 °F (0 °C) Freezing point 212.00 °F (100 °C) **Boiling point** Pour point Not available Not available **Evaporation rate** None to boiling Flash point Not available **Auto-ignition temperature** Flammability limits in air, lower, % Not available

by volume

Flammability limits in air, upper, %

by volume

Not available

Not available Vapor pressure Vapor density Not available  $1.242 \pm 0.005$ Specific gravity Not available Octanol/water coefficient Solubility (H2O) Complete VOC (Weight %) Not available **Viscosity** Not available

Percent volatile

## 10. Stability and Reactivity

Reactivity Reacts violently with acids.

This product may react with oxidizing agents.

Possibility of hazardous reactions

Hazardous polymerization does not occur. Stable under recommended storage conditions.

Chemical stability

Conditions to avoid Hazardous vapours may be produced when mixed with chlorinated detergents or

sanitizers.

Do not mix with other chemicals.

Acids. Oxidizing agents. Incompatible materials

May include and are not limited to: Oxides of carbon. Hazardous decomposition products

# 11. Toxicological Information

#### Component analysis - LC50

Ingredient(s) **LC50** 

Not available Alkyl polyglycoside Sodium hydroxide Not available

Component analysis - Oral LD50

**LD50** Ingredient(s)

Alkyl polyglycoside 5000 mg/kg rat

Sodium hydroxide Not available

Effects of acute exposure

Causes chemical burns. May cause blindness. Eye

Causes chemical burns. Harmful contact may not cause immediate pain. Skin

Inhalation May cause respiratory tract irritation or chemical burns.

Harmful if swallowed. Causes chemical burns to mouth, throat and stomach. Ingestion

Non-hazardous by WHMIS/OSHA criteria. Sensitization Non-hazardous by WHMIS/OSHA criteria. **Chronic effects** Non-hazardous by WHMIS/OSHA criteria. Carcinogenicity Mutagenicity Non-hazardous by WHMIS/OSHA criteria. Reproductive effects Non-hazardous by WHMIS/OSHA criteria. Teratogenicity Non-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Not available

**Products** 

## 12. Ecological Information

Components of this product have been identified as having potential environmental **Ecotoxicity** 

concerns.

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data** 

Sodium hydroxide 1310-73-2 96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]

Not available Persistence / degradability Not available Bioaccumulation / accumulation Not available Mobility in environmental media **Environmental effects** Not available Not available Aquatic toxicity Not available Partition coefficient Not available Chemical fate information Other adverse effects Not available

## 13. Disposal Considerations

Dispose in accordance with all applicable regulations. **Disposal instructions** 

Waste from residues / unused

products

Not available

Contaminated packaging Not available

# 14. Transport Information

#### **U.S. Department of Transportation (DOT)**

**Basic shipping requirements:** 

Proper shipping name Corrosive liquid, basic, inorganic, n.o.s. (SODIUM

HYDROXIDE RQ = 5000 lbs)

Hazard class

UN3266 **UN number** 

Ш Packing group

Additional information:

Special provisions B2, IB2, T11, TP2, TP27

< 0.3 Gallon - Limited Quantity Packaging exceptions

154 **ERG** number

#### Transportation of Dangerous Goods (TDG - Canada)

**Basic shipping requirements:** 

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. Proper shipping name

(SODIUM HYDROXIDE)

Hazard class

UN3266 **UN** number

Ш **Packing group** 

Additional information:

Special provisions 16

Packaging exceptions <1L - Limited Quantity





### 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

Sodium hydroxide 1310-73-2 1 %

WHMIS status Controlled

WHMIS classification Class E - Corrosive Material

WHMIS labeling



Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

Yes

chemical

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Sodium hydroxide 1310-73-2 1000 Lb final RQ: 454 kg final RQ

U.S. - CWA (Clean Water Act) - Hazardous Substances
Sodium hydroxide 1310-73-2 Present

**CERCLA (Superfund) reportable quantity** 

Sodium hydroxide: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely No

hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Hazardous substance

State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Sodium hydroxide 1310-73-2 Present U.S. - Louisiana - Reportable Quantity List for Pollutants

Sodium hydroxide 1310-73-2 1000 Lb final RQ; 454 kg final RQ

U.S. - Massachusetts - Right To Know List

Sodium hydroxide 1310-73-2 Present

U.S. - Minnesota - Hazardous Substance List

Sodium hydroxide 1310-73-2 Present U.S. - New Jersey - Right to Know Hazardous Substance List Sodium hydroxide 1310-73-2 sn 1706

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Sodium hydroxide 1310-73-2 1000 Lb RQ (air); 100 lb RQ (land/water)

U.S. - Pennsylvania - RTK (Right to Know) List

Sodium hydroxide 1310-73-2 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Sodium hydroxide 1310-73-2 Toxic; Flammable

Inventory name

Country(s) or region Inventory name On inventory (yes/no)\*

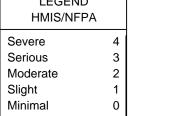
CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

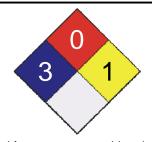
#### 16. Other Information





Disclaimer

Health 3 0 Flammability **Physical Hazard** Personal Protection



Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

02-Jun-2011 Issue date Effective date 15-Aug-2011 15-Aug-2014 **Expiry date** 

Nu-Calgon Technical Service (314) 469-7000 Prepared by

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.