



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product name** NU-BRITE (4291-01, 4291-05, 4291-08, 4891-08)  
**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.

**Potential environmental effects** Components of this product have been identified as having potential environmental concerns.

## 3. Composition/Information on Ingredients

Components	CAS #	Percent
Sodium hydroxide	1310-73-2	15 - 40
Alkyl polyglycoside	110615-47-9	1 - 5

## 4. First Aid Measures

**First aid procedures**

**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.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical 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.

**Notes to physician** Treat patient symptomatically.

**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 criteria.

**Extinguishing media**

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

<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	No.
<b>Sensitivity to static discharge</b>	No.

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	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.
<b>Environmental precautions</b>	Do not discharge into lakes, streams, ponds or public waters.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	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 services and supplier for advice. Never return spills to original containers for re-use.

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## 7. Handling and Storage

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<b>Handling</b>	Ensure adequate ventilation. 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 vapours or mists of this product.
<b>Storage</b>	Keep out of the reach of children. Store in a closed container away from incompatible materials.

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## 8. Exposure Controls/Personal Protection

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<b>Occupational exposure limits</b>		
<b>US. ACGIH Threshold Limit Values</b>		
<b>Components</b>	<b>Type</b>	<b>Value</b>
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
<b>Exposure limits</b>	Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.	
<b>Engineering controls</b>	General ventilation normally adequate.	
<b>Personal protective equipment</b>		
<b>Eye/Face protection</b>	Wear chemical goggles.	
<b>Hand protection</b>	Rubber gloves. Confirm with a reputable supplier first.	
<b>Skin and body protection</b>	As required by employer code. Rubber apron recommended.	
<b>Respiratory protection</b>	Avoid breathing mists or vapours. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.	
<b>General hygiene considerations</b>	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.	

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Liquid
<b>Colour</b>	Blue
<b>Form</b>	Liquid
<b>Odour</b>	Characteristic, Mild

<b>Odour threshold</b>	Not available.
<b>Physical state</b>	Liquid.
<b>pH</b>	14 (Concentrate)
<b>Freezing point</b>	0 °C (32 °F)
<b>Boiling point</b>	100 °C (212 °F)
<b>Pour point</b>	Not available.
<b>Evaporation rate</b>	Not available
<b>Flash point</b>	None to boiling
<b>Auto-ignition temperature</b>	Not available
<b>Flammability Limits in Air, Upper, % by Volume</b>	Not available
<b>Flammability Limits in Air, Lower, % by Volume</b>	Not available
<b>Heat of combustion</b>	Not available.
<b>Vapour pressure</b>	Not available
<b>Vapour density</b>	Not available
<b>Specific gravity</b>	1.242 ± 0.005
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Solubility (Water)</b>	Complete
<b>Relative density</b>	Not available.
<b>Viscosity</b>	Not available.
<b>VOC</b>	Not available
<b>Percent volatile</b>	Not available

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## 10. Stability and Reactivity

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<b>Reactivity</b>	Reacts violently with acids. This product may react with oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Hazardous vapours may be produced when mixed with chlorinated detergents or sanitizers. Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Oxidizing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.

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## 11. Toxicological Information

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### Toxicological data

Components	Species	Test results
Alkyl polyglycoside (CAS 110615-47-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Sodium hydroxide (CAS 1310-73-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	1350 mg/kg

Components	Species	Test results
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Not available	

#### Effects of acute exposure

<b>Eye contact</b>	Causes chemical burns. May cause blindness.
<b>Skin contact</b>	Causes chemical burns. Harmful contact may not cause immediate pain.
<b>Inhalation</b>	May cause respiratory tract irritation or chemical burns.
<b>Ingestion</b>	Harmful if swallowed. Causes chemical burns to mouth, throat and stomach.
<b>Sensitisation</b>	Non-hazardous by WHMIS criteria.
<b>Chronic effects</b>	Non-hazardous by WHMIS criteria.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS criteria.
<b>Mutagenicity</b>	Non-hazardous by WHMIS criteria.
<b>Reproductive effects</b>	Non-hazardous by WHMIS criteria.
<b>Teratogenicity</b>	Non-hazardous by WHMIS criteria.
<b>Name of Toxicologically Synergistic Products</b>	Not available.

## 12. Ecological Information

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

#### Ecotoxicological data

Components	Species	Test results
Sodium hydroxide (CAS 1310-73-2)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Ceriodaphnia dubia</i> ) 34.59 - 47.13 mg/l, 48 hours
Fish	LC50	Western mosquitofish ( <i>Gambusia affinis</i> ) 125 mg/l, 96 hours

<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulation/accumulation</b>	Not available
<b>Mobility in environmental media</b>	Not available.
<b>Environmental effects</b>	Not available.
<b>Aquatic toxicity</b>	Not available.
<b>Partition coefficient</b>	Not available.
<b>Chemical fate information</b>	Not available.

## 13. Disposal Considerations

<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

## 14. Transport Information

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

##### Basic shipping requirements:

<b>UN number</b>	UN3266
<b>Proper shipping name</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide)
<b>Hazard class</b>	8
<b>Packing group</b>	II
<b>Special provisions</b>	16
<b>Packaging exceptions</b>	<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: Threshold limits**

Sodium hydroxide (CAS 1310-73-2) 1 %

**WHMIS status** Controlled  
**WHMIS Classification** Class E - Corrosive Material

**WHMIS labeling**



**Inventory status**

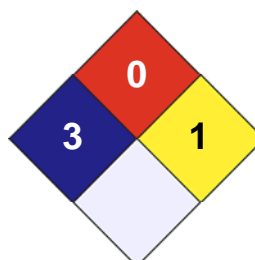
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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

### 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 3
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	X



**Disclaimer**

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.

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**Other information** For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.