

## MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

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

CAS# Mixture

Coil Cleaner / Degreaser **Product Use** 

Nu-Calgon Manufacturer

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.

Causes chemical burns. May cause blindness. **Eyes** 

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

May cause respiratory tract irritation or chemical burns. Inhalation

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

Eyes. Respiratory system. Skin. **Target organs** 

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

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

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

### 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

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

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 attention. Inhalation

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 Dry chemical. Water spray. Carbon dioxide. Foam.

media

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

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

**Explosion data** 

Sensitivity to mechanical

impact

.a...oa.

Sensitivity to static

discharge

No.

### 6. Accidental Release Measures

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** 

**Methods for containment** 

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

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 services and supplier for advice. Never

return spills to original containers for re-use.

### 7. Handling and Storage

**Handling** 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.

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

#### 8. Exposure Controls/Personal Protection

### Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

ComponentsTypeValueSodium hydroxide (CASCeiling2 mg/m3

1310-73-2)

**Exposure limits** 

Chemicals listed in section 3 that are not listed here do not have established limit values for

ACGIH.

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye/Face protection Wear cl

Wear chemical goggles.

**Hand protection** Rubber gloves. Confirm with a reputable supplier first.

**Skin and body protection** As required by employer code. Rubber apron recommended.

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

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

**General hygiene**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
Colour Blue
Form Liquid

Odour Characteristic, Mild

Odour threshold Not available.

Physical state Liquid.

pH 14 (Concentrate)

Freezing point 0 °C (32 °F)

Boiling point 100 °C (212 °F)

Pour point Not available.

Evaporation rate Not available

Flash point None to boiling

Auto-ignition temperature Not available

Flammability Limits in Air,

Upper, % by Volume

Flammability Limits in Air, Lower, % by Volume

Not available

Not available

Heat of combustionNot available.Vapour pressureNot availableVapour densityNot availableSpecific gravity $1.242 \pm 0.005$ Partition coefficientNot available

(n-octanol/water)

Solubility (Water)

Relative density

Viscosity

VOC

Not available

Not available

Not available

Not available

# 10. Stability and Reactivity

**Reactivity** Reacts violently with acids.

This product may react with oxidizing agents.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

**Chemical stability** Stable under recommended storage conditions.

**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

Hazardous decomposition

products

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

### 11. Toxicological Information

Toxicological data

Components Species Test results

Alkyl polyglycoside (CAS 110615-47-9)

**Acute** 

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Not available

Oral

LD50 Rat > 5000 mg/kg

Sodium hydroxide (CAS 1310-73-2)

**Acute**Dermal

LD50 Rabbit 1350 mg/kg

Components Species Test results

Inhalation

LC50 Not available

Oral

LD50 Not available

Effects of acute exposure

**Eye contact** Causes chemical burns. May cause blindness.

Not available.

**Skin contact** 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.

Sensitisation

Chronic effects

Non-hazardous by WHMIS criteria.

Carcinogenicity

Non-hazardous by WHMIS criteria.

Non-hazardous by WHMIS criteria.

Non-hazardous by WHMIS criteria.

Reproductive effects

Non-hazardous by WHMIS criteria.

Teratogenicity

Non-hazardous by WHMIS criteria.

Name of Toxicologically

**Synergistic Products** 

### 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)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/l, 48 hours

Fish LC50 Western mosquitofish (Gambusia affinis) 125 mg/l, 96 hours

Persistence and degradability

Bioaccumulation/accumulation

Not available

Not available.

Not available.

media

Environmental effects Not available.

Aquatic toxicity Not available.

Partition coefficient
Not available.
Chemical fate information
Not available.

# 13. Disposal Considerations

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

Waste from residues / unused

products

Not available

Contaminated packaging Not available

### 14. Transport Information

# Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN3266

Proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide)

Hazard class 8
Packing group II
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: Threshold limits

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

WHMIS status Controlled

WHMIS Classification Class E - Corrosive Material

WHMIS labeling



#### Inventory status

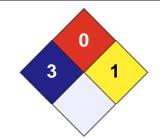
Country(s) or regionInventory NameOn Inventory (Yes/No)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)No

\*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





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

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.