# SAFETY DATA SHEET



# 1. Product and Company Identification

Product identifier Foam Brite (4178-01, 4178-05, 4178-08)

Other means of identification

Not available

Recommended use

Coil Cleaner / Degreaser

**Recommended restrictions** 

None known.

Manufacturer information

Nu-Calgon 2611 Schuetz Road

2011 Schuelz Road

St. Louis, MO 63043 US

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

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

Supplier

See above.

### 2. Hazards Identification

Physical hazards Corrosive to metals

Health hazards Skin corrosion/irritation

Category 1 Category 1B

Serious eye damage/eye irritation

Category 1

Environmental hazards
WHMIS 2015 defined hazards

Not classified.

Not classified

Label elements



Signal word Danger

**Hazard statement** 

May be corrosive to metals. Causes severe skin burns and eye damage.

**Precautionary statement** 

Prevention

Keep only in original packaging. Do not breathe mist or vapor. Wash thoroughly after handling.

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

Response

Absorb spillage to prevent material-damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Storage Store locked up. Store in a corrosion resistant container with a resistant inner liner.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

None known

None known.

Hazard(s) not otherwise

classified (HNOC)

Supplemental information None.

# 3. Composition/Information on Ingredients

**Mixture** 

Chemical nameCommon name and synonymsCAS number%Sodium hydroxide1310-73-215-25

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

	4. First Aid Measures
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER/doctor. Specific treatment (see information on this label). Wash contaminated clothing before reuse.
Eye contact	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/doctor.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	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. Sho this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.
	5. Fire Fighting Measures
Suitable extinguishing media	Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
	6. Accidental Release Measures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or confined areas.
	Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.
	7. Handling and Storage
Precautions for safe handling	Use only with adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or or clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Keep container tightly closed. When using do not eat or drink.

Store locked up. Store in a cool, dry place out of direct sunlight. Store in a corrosion resistant container with a resistant inner liner. Store in a closed container away from incompatible materials. Conditions for safe storage, including any incompatibilities Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

#### 8. Exposure Controls/Personal Protection

#### Occupational exposure limits

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

ComponentsTypeValueSodium hydroxide (CASCeiling2 mg/m3

1310-73-2)

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and

Safety Regulation 296/97, as amended)

ComponentsTypeValueSodium hydroxide (CASCeiling2 mg/m3

1310-73-2)

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

ComponentsTypeValueSodium hydroxide (CAS 1310-73-2)Ceiling 2 mg/m3

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

ComponentsTypeValueSodium hydroxide (CAS 1310-73-2)Ceiling2 mg/m3

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

ComponentsTypeValueSodium hydroxide (CAS 1310-73-2)Ceiling2 mg/m3

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

ComponentsTypeValueSodium hydroxide (CAS 1310-73-2)Ceiling2 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

ComponentsTypeValueSodium hydroxide (CAS 1310-73-2)PEL2 mg/m3

**US. ACGIH Threshold Limit Values** 

ComponentsTypeValueSodium hydroxide (CAS 1310-73-2)Ceiling2 mg/m3

**US. NIOSH: Pocket Guide to Chemical Hazards** 

ComponentsTypeValueSodium hydroxide (CAS 1310-73-2)Ceiling2 mg/m3

**Biological limit values**No biological exposure limits noted for the ingredient(s).

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

ACGIH.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

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

Other Wear appropriate chemical resistant clothing. As required by employer code.

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

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

# 9. Physical and Chemical Properties

**Appearance** Liquid Liquid. Physical state Form Liquid Yellow Color Odor Bland.

**Odor threshold** Not available. 12.7 (1% in water) Нα 14 (Concentrate)

32 °F (0 °C) Melting point/freezing point 212 °F (100 °C) Initial boiling point and boiling

range

Not available. Pour point

Specific gravity 1.24

Not available Partition coefficient

(n-octanol/water)

Flash point Tag Closed Cup None to boiling

**Evaporation rate** Equal to water Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits Flammability limit - lower Not available

Flammability limit - upper

(%)

Not available

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Not available Vapor density Not available. Relative density Complete Solubility(ies) **Auto-ignition temperature** Not available Not available. **Decomposition temperature Viscosity** < 5 cP Water thin

Other information

Density 10.36 lb/gal **Explosive properties** Not explosive. Not oxidizing. **Oxidizing properties** 

# 10. Stability and Reactivity

May be corrosive to metals. Reacts violently with acids. This product may react with strong Reactivity

oxidizing agents.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

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

Do not mix with other chemicals. Conditions to avoid Acids. Strong oxidizing agents. Metals. Incompatible materials

Hazardous decomposition

products

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

# 11. Toxicological Information

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

Information on likely routes of exposure

Causes digestive tract burns. May cause stomach distress, nausea or vomiting. Ingestion May cause irritation to the respiratory system. Prolonged inhalation may be harmful. Inhalation

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

cological characteristics blindness could result.

Information on toxicological effects

**Acute toxicity** 

Components Species Test Results

Sodium hydroxide (CAS 1310-73-2)

**Acute**Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Not available

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema valueNot available.Recover daysNot available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

Sodium hydroxide (CAS 1310-73-2) Irritant

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

MutagenicityNon-hazardous by WHMIS/OSHA criteria.CarcinogenicityNon-hazardous by WHMIS/OSHA criteria.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

**Teratogenicity** Non-hazardous by WHMIS/OSHA criteria.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological Information

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

below

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 No data is available on the degradability of this product.

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification

In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

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

**Basic shipping requirements:** 

UN number UN3266

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

Technical name SODIUM HYDROXIDE

Hazard class 8
Packing group ||

Special provisions 386, B2, IB2, T11, TP2, TP27

Packaging non bulk 202 Packaging bulk 242

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN3266

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

Technical name SODIUM HYDROXIDE

Hazard class 8
Packing group II
Special provisions 16

IATA/ICAO (Air)

**Basic shipping requirements:** 

UN number UN3266

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

Technical name Sodium hydroxide

Hazard class 8
Packing group |

**IMDG (Marine Transport)** 

Basic shipping requirements:

UN number UN3266

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

**Technical name** Sodium hydroxide

Hazard class 8
Packing group ||



IATA; IMDG; TDG



# 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

WHMIS 2015 Exemptions Not applicable

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

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Sodium hydroxide (CAS 1310-73-2) Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous

No

No

chemical

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

#### US state regulations

US - California Hazardous Substances (Director's): Listed substance

Sodium hydroxide (CAS 1310-73-2) Listed.

US - Illinois Chemical Safety Act: Listed substance

Sodium hydroxide (CAS 1310-73-2)

US - Louisiana Spill Reporting: Listed substance

Sodium hydroxide (CAS 1310-73-2) Listed.

**US - Minnesota Haz Subs: Listed substance** 

Sodium hydroxide (CAS 1310-73-2) Listed.

US - New Jersey RTK - Substances: Listed substance

Sodium hydroxide (CAS 1310-73-2)

**US - Texas Effects Screening Levels: Listed substance** 

Sodium hydroxide (CAS 1310-73-2) Listed.

**US. Massachusetts RTK - Substance List** 

Sodium hydroxide (CAS 1310-73-2)

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania Worker and Community Right-to-Know Law

Sodium hydroxide (CAS 1310-73-2)

**US. Rhode Island RTK** 

Sodium hydroxide (CAS 1310-73-2)

**US. California Proposition 65** 

Not Listed.

#### Inventory status

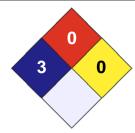
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
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<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other Information







**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. The information in the sheet was written based on the best knowledge and experience currently available.

Issue date 19-April-2017

Version # 01

19-April-2017 **Effective date** 

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

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the Other information

document.

Sid Harvey item #'s 4178-01, 4178-05 & 4178-08

SDS # Z0220



# **Safety Data Sheet**

Issue Date: 22-Oct-2013 Revision Date: 28-Oct-2013 Version 1

# 1. IDENTIFICATION

**Product Identifier** 

Product Name Foam-Brite

Other means of identification

**Part Number** 4178-01, 4178-05, 4178-08.

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

AppearanceYellowPhysical StateLiquidOdorBland

# 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

Chemical Name	CAS No	Weight-%
Sodium hydroxide	1310-73-2	15-25

<sup>\*\*</sup>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**

Eye Contact 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.

Skin Contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. Wash contaminated clothing before reuse.

Inhalation 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.

Ingestion IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a poison center

or doctor/physician.

# Most important symptoms and effects

**Symptoms** Causes severe skin burns and eye damage.

# Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 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	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
1310-73-2		(vacated) Ceiling: 2 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.

Revision Date: 28-Oct-2013 NUC-1605 - Foam-Brite

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

Wear approved safety goggles where a splash hazard exists. **Eye/Face Protection** 

**Skin and Body Protection** Wear suitable protective clothing.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation

wear respiratory protection.

General Hygiene Considerations 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

**Physical State** Liquid

**Appearance** Yellow Liquid Odor Bland

**Odor Threshold** Color Yellow Not determined

**Property** Remarks • Method Values

12.7 (1% in water)

14.0 (concentrate)

**Melting Point/Freezing Point** Not determined **Boiling Point/Boiling Range** 100 °C / 212 °F

**IBP** Flash Point None to boiling Tag Closed Cup

**Evaporation Rate** Equal to water Flammability (Solid, Gas) Liquid-not applicable **Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not determined Vapor Density Not determined

**Specific Gravity** 1.24

Water Solubility Soluble in water Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Water thin (<5 cps) **Explosive Properties** Not determined **Oxidizing Properties** Not determined

**VOC Content (%)** None Density 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.

**Hazardous Polymerization** Hazardous polymerization does not occur.

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

#### 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		45.4: 96 h Oncorhynchus		
1310-73-2		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	Toxic
1310-73-2	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 ||

<u>IATA</u>

UN/ID No UN3266

Proper Shipping Name Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide)

Hazard Class 8
Packing Group ||

<u>IMDG</u>

UN/ID No UN3266

Proper Shipping Name Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide)

Hazard Class 8
Packing Group ||

# 15. REGULATORY INFORMATION

### **International Inventories**

Not determined

#### Legend:

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

DSL/NDSL - 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	1000 lb		RQ 1000 lb final RQ
1310-73-2			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	1000 lb			X
1310-73-2 ( 15-25 )				

#### **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	X	X	X
1310-73-2			

# **16. OTHER INFORMATION**

NFPA Health Hazards Flammability Instability Special Hazards

3 0 Cor

<u>HMIS</u> Health Hazards Flammability Physical Hazards Personal Protection

0 0 X

Issue Date:22-Oct-2013Revision Date:28-Oct-2013Revision 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

Company Name Nu-Calgon Wholesaler, Inc.	Phone Nnmber (314) 469-7000 / (800)	554-5499	CHEMTREC (800) 424-9300	
Street Address 2008 Altom Court	<u>City</u> St. Louis	State MO	Postal Code 63146-4151	<u>Last Update</u> 01/25/07
Product Name Foam Brite	Product Number 4178	Product Use Coil Cleaner/Degr	reaser	EPA Registration # N/A

### SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	% By Wt.	CAS Number	TLV	<u>PEL</u>
Sodium Hydroxide (Caustic Soda)	15-25%	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 elothing. 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.

<u>Inhalation</u>: Inhalation of generated mists or spray may eause respiratory irritation or chemical burns of mouth, throat, and stomach.

<u>Chronic Exposure</u>: Chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis.

Carcinogenicity: None

Medical Conditions Aggravated be Exposurc: 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 earbon 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 reelaim into containers for reuse, recycle or proper disposal.

# SECTION 7 - HANDLING AND STORAGE

Ilandling 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 in 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.

<u>Protective Clothing</u>: 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

Physical Form: Liquid	Freezing Point: ~0°C/~32~0°F	% Volatile by Weight: ~79%%
Color: Yellow	Vapor Density [air =1]: Not Determined	Evaporation Rate: (vs. H2O): About the same.
Odor: No distinct odor	<u>Vapor Pressure</u> : Not Determined	Specific Gravity: (H2O=1.0): 1.2 (+/- 0.005)
Boiling Point: 100°C/212°F	Solubility in Water: Complete	pH (concentrate): 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

<u> Hazardous Ingredients</u>	CAS#	EINECS #	LD 50 of Ingredient (Specify Species)	LC50 of Ingredient (Specify Species)
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

Hazardons Ingredients	Aquatic Toxicity Data
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.

		1		
<u>Purview</u>	Proper Shipping Name	<u>UN Number</u>	Packing Group	Hazard Class
DOT (Land)	Corrosive liquid, basic, inorganic, n.o.s. (contains sodium hydroxide)	UN3266	П	8
IMO (Water)	No Data.	No Data.	No Data.	No Data.
ICAO (Air)	No Data.	No Data.	No Data.	No Data.

# SECTION 15 - REGULATIORY INFORMATION

SECTION 15 - REGULATION INFORMATION				
WHMIS Classification: (Workplace Hazardous Material Information System)	Class E - Corrosive Material			
SARA Title III: (Superfund Amendments & Reauthorization Act)	Contains no Section 313 listed substances subject to reporting requirements.			
OSIIA: (Occupational Safety & Health Administration)	OHSA Hazardous - Corrosive Liquid.			
TSCA: (Toxie Substance Control Aet)	All ingredients are TSCA registered.			
VOC: (volatile Organic Compounds)	Less than 1%			
CPR: (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations			
EINECS: (European Inventory of Existing Commercial Chemical Substances)	No Data.			
DSL / NDSL: (Canadian Domestic Substance List)(Non-Domestic Substance List)	All ingredients are listed on the Canadian DSL			
CERCLA: (Comprehensive Respouse Compensation & Liability Act)	RQ = >5,000 lbs (NaOH)			
IDL: (Canadian Ingredient Disclosure List)	Sodium hydroxide is listed.			
NFPA (HMIS) Rating: (Hazardous Materials Identification System)	Health = 3 Flammability = 0 Reactivity = I			

# **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 herin.