# SAFETY DATA SHEET



1. Product and Company Identification

Product identifier Eco-Lyme Descaler (4167-01, 4167-05, 4167-08)

Other means of identificationNot availableRecommended useDescalerRecommended restrictionsNone known.Manufacturer informationNu-Calgon

2611 Schuetz 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 hazardsCorrosive to metalsCategory 1Health hazardsAcute toxicity, dermalCategory 4Skin corrosion/irritationCategory 1B

Serious eye damage/eye irritation

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards Not classified.

WHMIS 2015 defined hazards Not classified

Label elements



Signal word Danger

Hazard statement May be corrosive to metals. Harmful in contact with skin. Causes severe skin burns and eye

damage. May cause respiratory irritation.

**Precautionary statement** 

Prevention Keep only in original packaging. Wear protective gloves/protective clothing/eye protection/face

protection. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wash

Category 1

thoroughly after handling.

**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 in a corrosion resistant container with a resistant inner liner. Store in a well-ventilated place.

Keep container tightly closed. Store locked up.

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

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

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

Hazard(s) not otherwise

classified (HNOC)

None known.

None known

None known

**Supplemental information** None.

### 3. Composition/Information on Ingredients

Mixture

Chemical nameCommon name and synonymsCAS number%Alkane sulfonic acid75-75-215-20

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

**Composition comments** 

The concentration ranges are provided due to batch-to-batch variability.

### 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. Wash contaminated clothing before reuse. Specific

treatment (see information on this label).

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. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information

Take off immediately all contaminated clothing. 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. Keep out of reach of children.

# 5. Fire Fighting Measures

Do not use water jet as an extinguisher, as this will spread the fire.

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide.

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters Fire-fighting

equipment/instructions
Specific methods

Hazardous combustion products

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. May include and are not limited to: Oxides of sulfur. Oxides of nitrogen. 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

Should not be released into the environment. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. 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. Prevent further leakage or spillage if safe to do so. Do not contaminate water. 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

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

### Conditions for safe storage, including any incompatibilities

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 away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

### 8. Exposure Controls/Personal Protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

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).

Skin protection

Hand protection Impervious gloves. Confirm with reputable supplier first.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. 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.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not eat or drink.

# 9. Physical and Chemical Properties

Clear **Appearance Physical state** Liquid. **Form** Liquid.

Color Colorless to Yellow Slight Sulfurous Odor Odor threshold Not available.

pН

Melting point/freezing point -76 °F (-60 °C) Initial boiling point and boiling > 212 °F (> 100 °C)

range

Pour point

Not available.

Specific gravity 1.065 -4.98 Partition coefficient

(n-octanol/water)

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

(%)

Not available.

Explosive limit - lower (%) Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

Relative density

Solubility(ies)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available.

Other information

**Explosive properties** Not explosive.

Molecular weight 96.1

Oxidizing properties Not oxidizing

# 10. Stability and Reactivity

Reactivity Reacts violently with strong alkaline substances. This product may react with reducing agents. May

be corrosive to metals. This product may react with strong oxidizing agents.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Chemical stability** Material is stable under normal conditions.

**Conditions to avoid**Do not mix with other chemicals.

Incompatible materials Bases. Strong oxidizing agents. Reducing agents. Metals.

Hazardous decomposition

products

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

# 11. Toxicological Information

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

Information on likely routes of exposure

Ingestion Causes digestive tract burns. May cause stomach distress, nausea or vomiting.

**Inhalation** May cause irritation to the respiratory system.

**Skin contact** Harmful in contact with skin. 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

blindness could result. May cause respiratory irritation.

Information on toxicological effects

Acute toxicity In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and

central nervous system effects. May cause respiratory irritation. Harmful in contact with skin.

Components Species Test Results

Alkane sulfonic acid (CAS 75-75-2)

Acute Dermal

LD50 Rabbit 200 - 2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Not available

Oral

LD50 Rat 1158 mg/kg, ECHA

648.7 mg/kg, ECHA

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

Exposure minutes Not available.

Erythema value Not available.

Oedema value Not 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 value Not available.

Recover days Not available.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity See below.

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** Not available.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

Not an aspiration hazard.

## 12. Ecological Information

**Ecotoxicity** Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon

exposure to aquatic organisms and aquatic systems. See below

**Ecotoxicological data** 

Species **Test Results** Components

Alkane sulfonic acid (CAS 75-75-2)

Daphnia Crustacea EC50 12 mg/L, 48 Hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Mobility in soil No data available. Mobility in general Not available.

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

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

# 13. Disposal Considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions** 

this material to drain into sewers/water supplies. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations.

Local disposal 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).

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

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

Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the

product will appear below.

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

**Basic shipping requirements:** 

UN3265 **UN** number

Proper shipping name Corrosive liquid, acidic, organic, n.o.s. Alkane sulfonic acid

**Technical name** Hazard class

Ш **Packing group** 

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

**Packaging exceptions** 154 202 Packaging non bulk Packaging bulk 242

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

**Basic shipping requirements:** 

UN number UN3265

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Technical name Alkane sulfonic acid

Hazard class 8
Packing group II
Special provisions 16

IATA/ICAO (Air)

**Basic shipping requirements:** 

UN number UN3265

**Proper shipping name** Corrosive liquid, acidic, organic, n.o.s.

Technical name Alkane sulfonic acid

Hazard class 8
Packing group II

**IMDG (Marine Transport)** 

**Basic shipping requirements:** 

UN number UN3265

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Technical name Alkane sulfonic acid

Hazard class 8
Packing group II

DOT



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)

Not 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

Nο

No

chemical

SARA 313 (TRI reporting)

SARA 311/312 Hazardous

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 See below

US - New Jersey RTK - Substances: Listed substance

Alkane sulfonic acid (CAS 75-75-2)

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

Alkane sulfonic acid (CAS 75-75-2) Listed.

**US. Massachusetts RTK - Substance List** 

Not regulated.

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

Not regulated.

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

#### **US. California Proposition 65**

Not Listed.

#### Inventory status

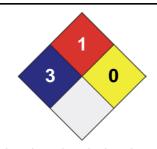
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<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

The information in the sheet was written based on the best knowledge and experience currently available. 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 SDS, please contact the supplier/manufacturer listed on the first page of the document.	