SAFETY DATA SHEET



1. Product and Company Identification

Product identifier CalClean (4135-01, 4135-06, 4135-08, 4820-08)

Other means of identificationNot availableRecommended useCoil CleanerRecommended 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 hazardsSkin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1

Environmental hazards
WHMIS 2015 defined hazards

Label elements

Not classified.

Not classified



Signal word Danger

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

Precautionary statement

Prevention Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves, protective

clothing, eye protection and face protection. Keep only in original packaging.

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 or 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 container in accordance with local, regional, national and international regulations.

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

Mixture

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

None known

None known

Hazard(s) not otherwise None known.

classified (HNOC)

ciassilled (HNOC)

NONE KNOWN

Supplemental information None.

3. Composition/Information on Ingredients

Chemical name Common name and synonyms CAS number % Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy 34398-01-1 1-5* Sodium metasilicate 6834-92-0 1-5* Sodium tripolyphosphate 7758-29-4 1-5*

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

Composition comments

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER or doctor.

Skin contact IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

Specific treatment (see information on this label).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact

and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or Ingestion

doctor.

Most important

symptoms/effects, acute and

delayed Indication of immediate

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.

Provide general supportive measures and treat symptomatically.

medical attention and special treatment needed **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. 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

Suitable extinguishing media

Unsuitable extinguishing

media

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

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

During fire, gases hazardous to health may be formed.

Specific hazards arising from the chemical

Special protective equipment

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

and precautions for firefighters Fire-fighting

equipment/instructions

Specific methods

General fire hazards

Hazardous combustion

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

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

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

products

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 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 in vermiculite, dry sand or earth and place into containers. 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.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Do not discharge into lakes, streams, ponds or public waters.

Environmental precautions

7. Handling and Storage

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. Store in a corrosion resistant container with a resistant inner liner.

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.

Skin protection

Hand protection

Impervious gloves. Confirm with reputable supplier first.

Other As required by employer code. Use of an impervious apron is recommended.

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

AppearanceClearPhysical stateLiquid.FormLiquidColorYellowOdorFresh

Odor threshold Not available.

pH 13 (Concentrate)

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Pour point

Not available.
Not available.

Partition coefficient (n-octanol/water)

Specific gravity

Not available.

Flash pointNot available.Evaporation rateNot available.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 pressureNot available.Vapor densityNot available.Relative densityNot available.Solubility(ies)Not available.Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

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Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and Reactivity

Descibility of becauses

This product may react with strong oxidizing agents. Reacts violently with acids.

Possibility of hazardous

reactions

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability Material is stable under normal conditions.

Conditions to avoidDo not mix with other chemicals.Incompatible materialsStrong oxidizing agents. Acids.

Hazardous decomposition

products

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

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 contactCauses severe skin burns.Eye contactCauses 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.

Information on toxicological effects

Acute toxicity

Components Species Test Results

Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy- (CAS 34398-01-1)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg, West Penetone

Inhalation

LC50 Not available

Oral LD50

50 > 1400 mg/kg, Koch Membrane Systems

Rabbit > 2000 mg/kg, West Penetone
Rat 1700 mg/kg, West Penetone

Sodium metasilicate (CAS 6834-92-0)

Acute

Dermal

LD50 Rat > 5000 mg/kg, 24 Hours

Inhalation

LC50 Rat > 2.1 mg/L, 4 Hours

Oral

LD50 Mouse 770 - 820 mg/kg, ECHA

666.7 - 1008.6 mg/kg, ECHA

2400 mg/kg, Patty's Industrial Hygiene and

Toxicology

770 - 820 mg/kg, ECHA 666.7 - 1008.6 mg/kg, ECHA

661.5 - 896.3 mg/kg

Rat 1189.6 - 1530 mg/kg, ECHA

1152 - 1349 mg/kg, ECHA

Components **Species Test Results**

1280 mg/kg, Patty's Industrial Hygiene and

Toxicology

1189.6 - 1530 mg/kg, ECHA 1152 - 1349 mg/kg, ECHA 994.7 - 1335.9 mg/kg

Sodium tripolyphosphate (CAS 7758-29-4)

Acute

Dermal

LD50 Rabbit > 4640 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Rat > 0.4 mg/L, 4 Hours, ECHA

Oral

LD50 Mouse 3150 mg/kg, ECHA

> Rat > 2000 mg/kg, ECHA

6340 mg/kg, ECHA 5010 mg/kg, ECHA 4750 mg/kg, ECHA 3000 mg/kg, ECHA 2300 mg/kg, ECHA

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

Not available. **Exposure minutes** Not available. Erythema value Oedema value Not available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Not available. Corneal opacity value Iris lesion value Not available. Conjunctival reddening Not available.

value

Not available.

Conjunctival oedema value 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 -Not classified. single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

12. Ecological Information

See below **Ecotoxicity**

Ecotoxicological data

Components Species Test Results

Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy- (CAS 34398-01-1)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 1.6 - 2.5 mg/L, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) 3.2 - 5 mg/L, 96 hours

Sodium metasilicate (CAS 6834-92-0)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 0.28 - 0.57 mg/L, 48 hours

Fish LC50 Western mosquitofish (Gambusia affinis) 1800 mg/L, 96 hours

Sodium tripolyphosphate (CAS 7758-29-4)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 238.35 - 321.01 mg/L, 48 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 instructionsCollect 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 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

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:

UN number UN3266

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

Technical name Sodium metasilicate

Hazard class 8
Packing group

Special provisions 386, B2, IB2, T11, TP2, TP27
Packaging exceptions <1L - Limited Quantity

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 metasilicate

Hazard class 8
Packing group II
Special provisions 16

Packaging exceptions <1L - Limited Quantity

IATA/ICAO (Air)

Basic shipping requirements:

UN number UN3266

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

Technical name Sodium metasilicate

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 metasilicate

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 No

hazardous substance

SARA 311/312 Hazardous 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

See below

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

Sodium tripolyphosphate (CAS 7758-29-4) Listed.

US - Illinois Chemical Safety Act: Listed substance

Sodium tripolyphosphate (CAS 7758-29-4)

US - Louisiana Spill Reporting: Listed substance

Sodium tripolyphosphate (CAS 7758-29-4) Listed.

US - Texas Effects Screening Levels: Listed substance

Poly(oxy-1,2-ethanediyl), Listed.

alpha-undecyl-omega-hydroxy- (CAS 34398-01-1)

Sodium metasilicate (CAS 6834-92-0) Listed. Sodium tripolyphosphate (CAS 7758-29-4) Listed.

US. Massachusetts RTK - Substance List

Sodium tripolyphosphate (CAS 7758-29-4)

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

Not regulated.

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

Sodium tripolyphosphate (CAS 7758-29-4)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

This product is not subject to warning labeling under the California Proposition 65 regulation.

Inventory status

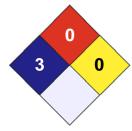
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}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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Prepared by Nu-Calgon Technical Service Phone: (314) 469-7000

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

document.