## SAFETY DATA SHEET



1. Product and Company Identification

Product identifier Special HD CalClean (4143-01, 4143-06, 4143-08, 4823-08)

Other means of identification Not available
Recommended use Heavy duty cleaner
Recommended restrictions None known.

Manufacturer information Nu-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)

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 name

Common name and synonyms

CAS number

%

Poly(oxy-1,2-ethanediyl),
alpha-undecyl-omega-hydroxy
Potassium hydroxide

Sodium lauriminodipropionate

14960-06-6

1-5\*

Chemical name	Common name and synonyms	CAS number	%
Sodium metasilicate		6834-92-0	3-7*
Sodium tripolyphosphate		7758-29-4	3-7*
All concentrations are in percent by Composition comments	weight unless ingredient is a gas. Gas concer US GHS: The exact percentage (concentration secret in accordance with paragraph (i) of §11 *CANADA GHS: The exact percentage (concentrade secret.	on) of composition has been v 910.1200.	vithheld as a trade
	4. First Aid Measures	<b>3</b>	
Inhalation	IF INHALED: Remove person to fresh air and POISON CENTER or doctor.	d keep comfortable for breathi	ng. Immediately call a
Skin contact	IF ON SKIN (or hair): Take off immediately al Immediately call a POISON CENTER or doc Specific treatment (see information on this lat	tor. Wash contaminated cloth	
Eye contact	IF IN EYES: Rinse cautiously with water for s and easy to do. Continue rinsing. Immediately	y call a POISON CENTER or	doctor.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT indudoctor.	-	
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin dama include stinging, tearing, redness, swelling, a blindness could result.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre	eat symptomatically.	
General information	If you feel unwell, seek medical advice (show personnel are aware of the material(s) involve this safety data sheet to the doctor in attendareach of children.	ed and take precautions to pro	otect themselves. Show
	5. Fire Fighting Measur	es	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	oon dioxide.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as the	nis will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	rotective clothing must be wo	rn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do	so without risk.	
Specific methods	Use standard firefighting procedures and con	sider the hazards of other inv	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
Hazardous combustion products	May include and are not limited to: Oxides of	nitrogen. Oxides of carbon.	
	6. Accidental Release Mea	sures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep pe appropriate protective equipment and clothing not touch damaged containers or spilled mate Ensure adequate ventilation. Local authorities contained. For personal protection, see section	g during clean-up. Do not brea erial unless wearing appropria s should be advised if significa	athe mist or vapor. Do te protective clothing.
Methods and materials for	Prevent entry into waterways, sewer, baseme	ents or confined areas.	
containment and cleaning up	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 remove residual contamination.	l (e.g. cloth, fleece). Clean su	rface thoroughly to

**Environmental precautions** 

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

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

#### 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. Store locked up. Store in original tightly closed container. Store away from incompatible materials Conditions for safe storage, (see Section 10 of the SDS). Keep out of reach of children. Store in a corrosion resistant container including any incompatibilities with a resistant inner liner. 8. Exposure Controls/Personal Protection Occupational exposure limits Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) Components Value **Type** Potassium hydroxide (CAS Ceilina 2 mg/m3 1310-58-3) Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) Components **Type** Value Potassium hydroxide (CAS Ceiling 2 mg/m3 1310-58-3) Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) Components Value **Type** Potassium hydroxide (CAS Ceiling 2 mg/m3 1310-58-3) Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) Components Type Value Potassium hydroxide (CAS Ceiling 2 mg/m3 1310-58-3) Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) Components Type Value Potassium hydroxide (CAS Ceiling 2 mg/m3 1310-58-3) Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) Components Type Value Potassium hydroxide (CAS 1310-58-Ceiling 2 mg/m3 **US. ACGIH Threshold Limit Values** Components Value Type Potassium hydroxide (CAS Ceiling 2 mg/m3 1310-58-3) **US. NIOSH: Pocket Guide to Chemical Hazards** Value Components Type Potassium hydroxide (CAS Ceiling 2 mg/m3 1310-58-3) No biological exposure limits noted for the ingredient(s). **Biological limit values** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates Appropriate engineering should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, controls 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. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection 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.

Page: 3 of 10 Issue date 12-March-2022 (4143-01, 4143-06, 4143-08, 4823-08)(Canada/US GHS)

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** 13.5

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Pour pointNot available.Specific gravityNot available.Partition coefficientNot available

(n-octanol/water)

Flash point Not available.

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 Not available Relative density 9.36 lb/gal Solubility(ies) Not available. Not available **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** Not available.

Other information

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

## 10. Stability and Reactivity

Possibility of hazardous

resetters

reactions

Reactivity

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

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 Strong 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 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

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 > 1400 mg/kg, Koch Membrane Systems

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

Potassium hydroxide (CAS 1310-58-3)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rat

365 mg/kg, ECHA 333 mg/kg, ECHA

388 mg/kg, ECHA

273 mg/kg

Sodium lauriminodipropionate (CAS 14960-06-6)

Acute

Dermal

LD50 Rabbit > 20 g/kg, 24 Hours, ECHA

Rat > 2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Not available

Oral

LD50 Rat > 10000 mg/kg

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.

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

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity valueNot available.Iris lesion valueNot available.Conjunctival reddeningNot available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

Potassium hydroxide (CAS 1310-58-3) Irritant

**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

**Ecotoxicity** See below

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

Potassium hydroxide (CAS 1310-58-3)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 80 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 potential

Mobility in soil

Mobility in general

No data available.

Not 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 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

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)

Potassium hydroxide (CAS 1310-58-3) 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 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.

Clean Water Act (CWA)

Hazardous substance

Section 112(r) (40 CFR

68.130)

#### **US state regulations**

See below

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

Potassium hydroxide (CAS 1310-58-3) Listed. Sodium tripolyphosphate (CAS 7758-29-4) Listed.

## **US - Illinois Chemical Safety Act: Listed substance**

Potassium hydroxide (CAS 1310-58-3) Sodium tripolyphosphate (CAS 7758-29-4)

## **US - Louisiana Spill Reporting: Listed substance**

Potassium hydroxide (CAS 1310-58-3) Listed. Sodium tripolyphosphate (CAS 7758-29-4) Listed.

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

Potassium hydroxide (CAS 1310-58-3) Listed.

## US - New Jersey RTK - Substances: Listed substance

Potassium hydroxide (CAS 1310-58-3)

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

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

Potassium hydroxide (CAS 1310-58-3) Listed. Sodium lauriminodipropionate (CAS 14960-06-6) Listed. Sodium metasilicate (CAS 6834-92-0) Listed. Sodium tripolyphosphate (CAS 7758-29-4) Listed.

## US. Massachusetts RTK - Substance List

Potassium hydroxide (CAS 1310-58-3) 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

Potassium hydroxide (CAS 1310-58-3) Sodium tripolyphosphate (CAS 7758-29-4)

## **US. Rhode Island RTK**

Potassium hydroxide (CAS 1310-58-3)

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

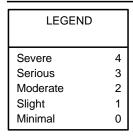
This product is not subject to warning labeling under the California Proposition 65 regulation.

### Inventory status

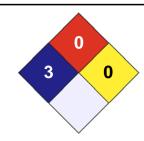
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*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.

Page: 10 of 10 Issue date 12-March-2022