# MATERIAL SAFETY DATA SHEET



### 1. Product and Company Identification

Calclean Special HD (4143) **Product Name** 

CAS# Mixture

Heavy Duty Cleaner/Degreaser Product use

Manufacturer Nu-Calgon

2008 Altom Court St. Louis, MO 63146 US

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

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

### 2. Hazards Identification

WARNING **Emergency overview** 

EYE AND SKIN IRRITANT.

Potential short term health effects

Eye, Skin contact, Inhalation, Ingestion. Routes of exposure May cause severe irritation or chemical burns. **Eyes** Skin

This product is non-corrosive based on test data.

May cause irritation.

Excessive intentional inhalation may cause respiratory tract irritation and central nervous Inhalation

system effects (headache, dizziness).

May cause stomach distress, nausea or vomiting. Ingestion

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

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

Symptoms may include redness, edema, drying, defatting and cracking of the skin. Signs and symptoms

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomitina.

**OSHA Regulatory Status** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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

environmental concerns.

# 3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Sodium metasilicate	6834-92-0	3 - 7
Sodium tripolyphosphate	7758-29-4	3 - 7
Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy-	34398-01-1	1 - 5
Potassium hydroxide	1310-58-3	1 - 5
Sodium lauriminodipropionate	14960-06-6	1 - 5

### 4. First Aid Measures

First aid procedures

Immediately flush with cool water. Remove contact lenses, if applicable, and continue Eve contact

flushing for 15 minutes. Obtain medical attention immediately.

Flush with cool water. Wash with soap and water. Obtain medical attention if irritation Skin contact

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce

risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing.

Obtain medical attention.

Symptoms may be delayed. Notes to physician

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

## 5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media Dry chemical. Carbon dioxide. Water spray. Alcohol foam.

Unsuitable extinguishing media

Not available

**Protection of firefighters** 

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

**Hazardous combustion products** May include and are not limited to: Oxides of sulphur. Oxides of phosphorus. Oxides of

carbon.

**Explosion data** 

Sensitivity to mechanical impact Not available Sensitivity to static discharge Not available

### 6. Accidental Release Measures

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not Personal precautions

touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions** 

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

Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements

or confined areas.

Before attempting clean up, refer to hazard data given above. Small spills may be Methods for cleaning up

absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency

services and supplier for advice. Never return spills to original containers for re-use.

# 7. Handling and Storage

**WARNING** Handling

EYE AND SKIN IRRITANT.

Do not get in eyes, on skin or on clothing.

Use good industrial hygiene practices in handling this material.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

Keep out of reach of children. Storage

Store in a closed container away from incompatible materials.

Exposure limits			
Ingredient(s)		Exposure Limits	
Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy-		ACGIH-TLV	
		Not established	
		OSHA-PEL	
		Not established	
Potassium hydroxide		ACGIH-TLV	
		Ceiling: 2 mg/m3	
		OSHA-PEL	
		Not established	
Sodium lauriminodipropionate		ACGIH-TLV	
		Not established	
		OSHA-PEL	
		Not established	
Sodium metasilicate		ACGIH-TLV	
		TWA: 10 mg/m3	
		OSHA-PEL	
		Not established	
Sodium tripolyphosphate		ACGIH-TLV	
		Not established	
		OSHA-PEL	
		Not established	
Engineering controls	General ventilation normally adequate.		
Personal protective equipment			
Eye / face protection	Wear safety glasses with side shields.		
Hand protection	Rubber gloves. Confirm with a reputable supplier first.		
Skin and body protection	As required by employer code.		
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.		

Avoid breathing mists or vapors.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

# 9. Physical and Chemical Properties

AppearanceLiquid.ColorOpal GreenFormLiquidOdorFresh.Odor thresholdNot availablePhysical stateLiquidpH13.5

Not available **Melting point** Freezing point 32.00 °F (0 °C) 212.00 °F (100 °C) **Boiling point** Not available Pour point Same as water **Evaporation rate** Flash point None to boiling **Auto-ignition temperature** Not available Not available Flammability limits in air, lower, %

by volume

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Flammability limits in air, upper, %

by volume

Not available

Vapor pressure Not available Not available Vapor density  $1.13 \pm 0.005$ Specific gravity Octanol/water coefficient Not available Complete Solubility (H2O) Not available VOC (Weight %) Not available Viscosity

Percent volatile

## 10. Stability and Reactivity

Reactivity Reacts violently with acids.

This product may react with strong oxidizing agents.

Possibility of hazardous reactions

Hazardous polymerization does not occur. Stable under recommended storage conditions.

Chemical stability Conditions to avoid

Do not mix with other chemicals.

Hazardous vapours may be produced when mixed with chlorinated detergents or

sanitizers.

Incompatible materials

Component analysis - LC50

Acids. Oxidizing agents.

Hazardous decomposition products

May include and are not limited to: Oxides of sulphur. Oxides of phosphorus. Oxides of

carbon.

## 11. Toxicological Information

Ingredient(s)	l	_C50

Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy-	Not available
Potassium hydroxide	Not available
Sodium lauriminodipropionate	Not available
Sodium metasilicate	Not available
Sodium tripolyphosphate	Not available

Component analysis - Oral LD50

Ingredient(s) **LD50** 

Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy-	1700 mg/kg rat
Potassium hydroxide	214 mg/kg rat
Sodium lauriminodipropionate	31300 mg/kg rat
Sodium metasilicate	1153 mg/kg rat
Sodium tripolyphosphate	3100 mg/kg rat

Sodium tripolyphosphate 3100 mg/kg rat

Effects of acute exposure

Eve May cause severe irritation or chemical burns. Skin This product is non-corrosive based on test data.

May cause irritation.

Excessive intentional inhalation may cause respiratory tract irritation and central nervous Inhalation

system effects (headache, dizziness).

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization Non-hazardous by WHMIS/OSHA criteria. **Chronic effects** Non-hazardous by WHMIS/OSHA criteria. Carcinogenicity Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria. Mutagenicity Non-hazardous by WHMIS/OSHA criteria. Reproductive effects **Teratogenicity** Non-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Not available

**Products** 

## 12. Ecological Information

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

concerns.

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data** 

1310-58-3 Potassium hydroxide 96 Hr LC50 Gambusia affinis: 80 mg/L [static]

Sodium metasilicate 6834-92-0 96 Hr LC50 Brachydanio rerio: 210 mg/L [semi-static]; 96 Hr LC50 Brachydanio rerio:

210 mg/L

Sodium tripolyphosphate 7758-29-4 48 Hr LC50 Leuciscus idus: 1650 mg/L

**Ecotoxicity - Water Flea - Acute Toxicity Data** 

Sodium metasilicate 6834-92-0 96 Hr EC50 Daphnia magna: 216 mg/L

Persistence / degradability Not available Bioaccumulation / accumulation Not available Mobility in environmental media Not available Not available **Environmental effects** Aquatic toxicity Not available Partition coefficient Not available Chemical fate information Not available Not available Other adverse effects

## 13. Disposal Considerations

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

Waste from residues / unused

products

Not available

Contaminated packaging

Not available

# 14. Transport Information

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

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

# 15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

Potassium hydroxide 1310-58-3 1 % Sodium metasilicate 6834-92-0 1 %

WHMIS status Controlled

Class D - Division 2B WHMIS classification

WHMIS labeling



Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

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

Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Potassium hydroxide 1310-58-3 1000 Lb final RQ; 454 kg final RQ

5000 Lb final RQ (listed under Sodium phosphate, tribasic); 2270 kg final RQ (listed Sodium tripolyphosphate 7758-29-4

under Sodium phosphate, tribasic)

U.S. - CWA (Clean Water Act) - Hazardous Substances

Potassium hydroxide 1310-58-3 Present Sodium tripolyphosphate 7758-29-4 Present

### **CERCLA (Superfund) reportable quantity**

Potassium hydroxide: 1000.0000 Sodium tripolyphosphate: 5000.0000

#### 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

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Hazardous substance

State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

#### U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Potassium hydroxide 1310-58-3 Present

Sodium tripolyphosphate 7758-29-4 Present (listed under Sodium phosphate, tribasic)

U.S. - Louisiana - Reportable Quantity List for Pollutants

Potassium hydroxide 1310-58-3 1000 Lb final RQ; 454 kg final RQ

Sodium tripolyphosphate 7758-29-4 5000 Lb final RQ (listed under Sodium phosphate, tribasic); 2270 kg final RQ (listed

under Sodium phosphate, tribasic)

U.S. - Massachusetts - Right To Know List

Potassium hydroxide 1310-58-3 Present Sodium tripolyphosphate 7758-29-4 Present

U.S. - Minnesota - Hazardous Substance List

Potassium hydroxide 1310-58-3 Present U.S. - New Jersey - Right to Know Hazardous Substance List Potassium hydroxide 1310-58-3 sn 1571

#### U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Potassium hydroxide 1310-58-3 1000 Lb RQ (air); 100 lb RQ (land/water) Sodium tripolyphosphate 7758-29-4 5000 Lb RQ (air); 100 lb RQ (land/water)

U.S. - Pennsylvania - RTK (Right to Know) List

Potassium hydroxide 1310-58-3 Environmental hazard Sodium tripolyphosphate 7758-29-4 Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

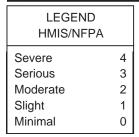
Potassium hydroxide 1310-58-3 Toxic (caustic); Flammable (caustic)

#### Inventory name

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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.

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

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.