

Chemical Name: Calclean

Manufacturer: Special HD

Container size: 1 gallon

Location: VLA

Disposal: Place empty container in trash.



Desilvert News			
Product Name	Calclean Special HD (4143) Mixture		
CAS #			
Product use	Heavy Duty Cleaner/Degreaser		
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		
Emergency overview	WARNING EYE AND SKIN IRRITANT.		
Potential short term health effects	6		
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.		
Eyes	May cause severe irritation or chemical burns.		
Skin	This product is non-corrosive based on test data. May cause irritation.		
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).		
Ingestion	May cause stomach distress, nausea or vomiting.		
Target organs	Eyes. Respiratory system. Skin.		
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.		
Signs and symptoms	Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.		
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.		

1. Product and Company Identification

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	
Eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation 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.
Notes to physician	Symptoms may be delayed.

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

Personal precautions Environmental precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. 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.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be 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
Lieu dila a	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.
Storage	Keep out of reach of children.
-	Store in a closed container away from incompatible materials.
Storage	Keep out of reach of children.

8.	Exposure	Controls	Personal	Protection
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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 ne	ormally 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		e 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 available	
FormLiquidOdorFresh.	
Odor Fresh.	
Odor threshold Not available	
Physical state Liquid	
pH 13.5	
Melting point Not available	
Freezing point32.00 °F (0 °C)	
Boiling point 212.00 °F (100 °C	C)
Pour point Not available	
Evaporation rate Same as water	
Flash point None to boiling	
Auto-ignition temperature Not available	
Flammability limits in air, lower, % Not available by volume	

Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.13 ± 0.005
Octanol/water coefficient	Not available
Solubility (H2O)	Complete
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	81

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.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Hazardous vapours may be produced when mixed with chlorinated detergents or sanitizers.
Incompatible materials	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

Component analysis - LC50			
Ingredient(s)		LC50	
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-undecy	-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	
Effects of acute exposure			
Еуе	May cause severe in	ritation or chemical burns.	
Skin	This product is non-corrosive based on test data. May cause irritation.		
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).		
Ingestion		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.		
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.		
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.		
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.		
Name of Toxicologically Synergistic Products	Not available		

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.				
Ecotoxicity - Freshwater Fish - A	Acute Toxicity Data	a			
Potassium hydroxide	1310-58-3	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					
Mobility in environmental media					
Environmental effects					
Aquatic toxicity	Not availab	le			
Partition coefficient	Not availab	le			
Chemical fate information	le				
Other adverse effects	Not available				
	13. Dis	sposal Considerations			
Disposal instructions	Dispose in accordance with all applicable regulations.				
Waste from residues / unused products	Not available				
Contaminated packaging	Not availab	le			

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.

Degulatory Information 4 5

	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 I	Disclosure List		
Potassium hydroxide Sodium metasilicate	1310-58-3 6834-92-0	1 % 1 %	
WHMIS status	Controlle	d	
WHMIS classification WHMIS labeling	Class D -	Division 2B	
Occupational Safety and Health	n Administratio	n (OSHA)	
29 CFR 1910.1200 hazardo chemical	u s Yes		
US Federal regulations		luct is a "Hazardous Chemical" as defined by the OSHA Hazard Communication I, 29 CFR 1910.1200.	
U.S CERCLA/SARA - Hazard	ous Substances	and their Reportable Quantities	
Potassium hydroxide Sodium tripolyphosphate	1310-58-3 7758-29-4	1000 Lb final RQ; 454 kg final RQ 5000 Lb final RQ (listed under Sodium phosphate, tribasic); 2270 kg final RQ (listed under Sodium phosphate, tribasic)	
U.S CWA (Clean Water Act)	Hazardous Subs		
Potassium hydroxide Sodium tripolyphosphate	1310-58-3 7758-29-4	Present Present	

CERCLA (Superfund) reportable quantity

Potassium hydroxide: 1000.0000 Sodium tripolyphosphate: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Delayed Fire Haza Pressure	te Hazard - Yes Hazard - No ard - No Hazard - No y Hazard - No
Section 302 extremely hazardous substance	No	
Section 311 hazardous cher	nical Yes	
Clean Air Act (CAA)	Not availa	able
Clean Water Act (CWA)	Hazardou	us substance
State regulations		luct does not contain a chemical known to the State of California to cause irth defects or other reproductive harm.
U.S California - 8 CCR Sectio	n 339 - Director's	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 Q	-	
Potassium hydroxide Sodium tripolyphosphate	1310-58-3 7758-29-4	1000 Lb final RQ; 454 kg final RQ 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 Sodium tripolyphosphate	1310-58-3 7758-29-4	Present Present
U.S Minnesota - Hazardous S		Personal
Potassium hydroxide U.S New Jersey - Right to Kn	1310-58-3 w Hazardous Si	Present
Potassium hydroxide	1310-58-3	sn 1571
-		7 - 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 (Righ	nt to Know) List	
Potassium hydroxide	1310-58-3	Environmental hazard
Sodium tripolyphosphate	7758-29-4	Environmental hazard
U.S Rhode Island - Hazardous		
Potassium hydroxide	1310-58-3	Toxic (caustic); Flammable (caustic)
Inventory name	_	
Country(s) or region	Inventor	
Canada	Domestic	Substances List (DSL) Yes
Canada	Non-Dom	nestic Substances List (NDSL) No
United States & Puerto Rico	Toxic Su	bstances Control Act (TSCA) Inventory Yes
A "Yes" indicates that all compon	ents of this produc	ct comply with the inventory requirements administered by the governing country(s)

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

LEGEND		Health / 2
HMIS/NFP	A	
Severe	4	Flammability 0
Serious	3	
Moderate	2	Physical Hazard 0
Slight	1	Personal Protection
Minimal	0	
Disclaimer		Information contained herein was obtained from sources considered technically accura 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 actua 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 no

16. Other Information

07-Dec-2011

use of or reliance on any information contained in this document.

be liable for any losses, injuries or consequential damages which may result from the

Effective date Expiry date Prepared by Other information 15-Jan-2012 15-Jan-2015 Nu-Calgon Technical Service (314) 469-7000 For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.