

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	Calclean Special HD (4143-01, 4143-06, 4143-08, 4823-08)		
Other means of identification	Not available		
Recommended use	Heavy Duty Cleaner/Degreaser		
Recommended restrictions	None known.		
Manufacturer	Nu-Calgon		
	2008 Altom Court St. Louis, MO 63146 US		
	Phone: 314-469-7000 / 800-554-5499		
	Emergency Phone: 1-800-424-9300 (CH	IEMTREC)	
	2. Hazards Identific	ation	
Physical hazards	Corrosive to metals	Category 1	
Health hazards	Skin corrosion/irritation	Category 2	
	Serious eye damage/eye irritation	Category 1	
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	May be corrosive to metals. Causes skin irritation. Causes serious eye damage.		
Precautionary statement			
Prevention	Keep only in original container. Wash the eye/face protection.	oroughly after handling. Wear protective gloves. Wear	
Response	If on skin: Wash with plenty of water. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse.		
	If in eyes: Rinse cautiously with water fo easy to do. Continue rinsing. Immediate Absorb spillage to prevent material dama		
Storage	Store in corrosive resistant container with a resistant inner liner.		
Disposal	Dispose of waste and residues in accord	lance with local authority requirements.	
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	Not applicable.	Not applicable.	
	3. Composition/Information	on Ingredients	

Mixture

Chemical name	Common name and synonyms	CAS number	%
Sodium metasilicate		6834-92-0	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
Sodium tripolyphosphate		7758-29-4	1-5

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.

	4. First Aid Measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist. If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.	
Skin contact	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see product label). Take off contaminated clothing and wash it before reuse.	
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	Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. 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.	
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). 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	Alcohol foam. Dry chemical. Carbon dioxide.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.	
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.	
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
Hazardous combustion products	May include and are not limited to: Oxides of sulfur. 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, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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	Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. 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.	
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent entry into waterways, sewers, basements or confined areas.	
Environmental precautions	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	Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. 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.	

Store in corrosive resistant container with a resistant inner liner. Store in a closed container away from incompatible materials. Keep only in the original container. Store in a cool, dry place out of direct sunlight. Keep out of reach of children.

8. Exposure Controls/Personal Protection

US. ACGIH Threshold Limit Components	Type	Value	
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to	o Chemical Hazards		
Components	Туре	Value	
Potassium hydroxide (CAS 1310-58-3)	TWA	2 mg/m3	
Biological limit values	No biological exposure limits noted	for the ingredient(s).	
exposure guidelines	Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.		
Appropriate engineering ontrols	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.		
ndividual protection measures,	such as personal protective equipr	nent	
Eye/face protection	Not available.		
Skin protection			
Hand protection	Rubber gloves. Confirm with a reputable supplier first.		
Other	Wear appropriate chemical resistant clothing. As required by employer code.		
Respiratory protection	Wear positive pressure self-contained breathing apparatus (SCBA). Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Avoid breathing mists or vapors.		
Thermal hazards	Not applicable.		
General hygiene considerations		iene measures, such as washing after handling the material smoking. Routinely wash work clothing and protective	

9. Physical and Chemical Properties

Appearance	Liquid
Physical state	Liquid.
Form	Liquid
Color	Opal Green
Odor	Fresh
Odor threshold	Not available.
рН	13.5
Melting point/freezing point	32 °F (0 °C)
Initial boiling point and boiling range	212 °F (100 °C)
Pour point	Not available.
Specific gravity	Not available.
Partition coefficient (n-octanol/water)	Not available
Flash point	None to boiling
Evaporation rate	Same as water
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or ex	plosive limits
Flammability limit - lower (%)	Not available
Flammability limit - upper (%)	Not available
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available

Vapor density	Not available
Relative density	Not available.
Solubility(ies)	Complete
Auto-ignition temperature	Not available
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and Reactivity		
Reactivity	Reacts violently with acids. This product may react with strong oxidizing agents. Corrosive to aluminum.	
Possibility of hazardous reactions	Hazardous polymerization does not occur.	
Chemical stability	Stable under recommended storage conditions.	
Conditions to avoid	Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Contact with incompatible materials. Hazardous vapours may be produced when mixed with chlorinated detergents or sanitizers.	
Incompatible materials	Oxidizing agents. Acids. Acids.	
Hazardous decomposition products	May include and are not limited to: Oxides of sulfur. Oxides of phosphorus. Oxides of carbon.	

11. Toxicological Information

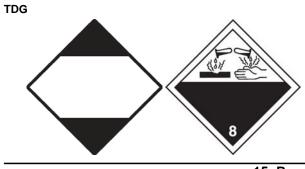
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.			
Information on likely routes of e	exposure	posure		
Ingestion	Expected to be a low ingestion hazard.			
Inhalation	Prolonged inhalation may be harmful.	Prolonged inhalation may be harmful.		
Skin contact	Causes skin irritation. This product is non-corrosive	based on test data.		
Eye contact	Causes serious eye damage.			
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, s cause redness and pain.	welling, and blurred vision. Skin irritation. May		
Information on toxicological eff	ects			
Acute toxicity				
Components	Species	Test Results		
Poly(oxy-1,2-ethanediyl), alpha-u	ndecyl-omega-hydroxy- (CAS 34398-01-1)			
Acute				
Dermal LD50	Rabbit	. 2000		
	Rabbit	> 2000 mg/kg		
Inhalation LC50	Not available			
Oral				
LD50	Rat	1700 mg/kg		
Potassium hydroxide (CAS 1310-	58-3)			
Acute				
Inhalation				
LC50	Not available			
Oral				
LD50	Rat	214 mg/kg		
Sodium lauriminodipropionate (C/	AS 14960-06-6)			
Acute				
Dermal LD50	Rabbit	10200 mg/kg		
Inhalation		· · · · · · · · · · · · · · · · · · ·		
LC50				

Components	Species	Test Results	
Oral LD50	Rat	31300 mg/kg	
Sodium metasilicate (CAS 6834-92	2-0)		
Acute			
Dermal			
LD50	Not available		
Inhalation LC50	Not available		
Oral			
LD50	Mouse	2400 mg/kg	
	Rat	1153 mg/kg	
Sodium tripolyphosphate (CAS 775	58-29-4)		
Acute	,		
Dermal			
LD50	Rabbit	7940 mg/kg	
Inhalation			
LC50	Not available		
Oral			
LD50	Rat	3100 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
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 value	Not available.		
Conjunctival oedema value	Je Not available.		
Recover days	Not available.		
Respiratory or skin sensitization			
Respiratory sensitization	Not available.		
Skin sensitization	This product is not expected to cause	skin sensitization.	
Germ cell mutagenicity	Non-hazardous by WHMIS/OSHA crit		
Mutagenicity	Non-hazardous by WHMIS/OSHA crit	eria.	
Carcinogenicity	Not classified or listed by IARC, NTP,	OSHA and ACGIH.	
Reproductive toxicity	Non-hazardous by WHMIS/OSHA crit	eria.	
Teratogenicity	Non-hazardous by WHMIS/OSHA crit	eria.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not available.		
Chronic effects	Prolonged inhalation may be harmful.		
Further information	Not available.		
Name of Toxicologically Synergistic Products	Not available.		
	12. Ecological Info	ormation	

Ecotoxicity

Components of this product have been identified as having potential environmental concerns. See below

Components		Species	Test Results	
Poly(oxy-1,2-ethanediyl), alpha-undecyl-omeg		•		
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 13	310-58-3)			
Aquatic				
Fish	LC50	Western mosquitofish (Gambusia affinis)	80 mg/l, 96 hours	
Sodium metasilicate (CAS 68	34-92-0)			
Aquatic	5050		0.00 0.57 // 40.1	
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 (CA Aquatic	S 7758-29-4)			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	238.35 - 321.01 mg/l, 48 hours	
Persistence and degradability	No data is ava	ilable on the degradability of this product.		
Bioaccumulative potential	No data availa	ble.		
Mobility in soil	No data availa	ble.		
Mobility in general	Not available.			
Other adverse effects		rse environmental effects (e.g. ozone deplo ocrine disruption, global warming potential)		
	1	3. Disposal Considerations		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.			
Local disposal regulations	-	cordance with all applicable regulations.		
Hazardous waste code	disposal comp	•		
Waste from residues / unused products	product residu	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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.			
		14. Transport Information		
General	DOT - 49 CFR	2 173.154 (d)(1) - Metal exemption		
	Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.			
U.S. Department of Transportati				
Not regulated as dangerous g Transportation of Dangerous Go	•	242)		
Basic shipping requirement	-	laua)		
UN number Proper shipping name Hazard class	ts: UN3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate) Limited Quantity - Canada			
Subsidiary hazard class Packing group Special provisions	8 III 16			
Packaging exceptions	<5L - Limited Quantity, > 5L - Corrosive Placard			



15. Regulatory Information

	15. Regulatory Information			
Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.			
Canada WHMIS Ingredient I	Disclosure: Threshold limits			
Potassium hydroxide (CA Sodium metasilicate (CA				
WHMIS status	Controlled			
WHMIS classification	Class D - Division 2B, Class E - Corrosive Material			
WHMIS labeling				
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. US CWA Section 311 Hazar	rdous Substances: Listed substance			
Potassium hydroxide (C/ Sodium tripolyphosphate CERCLA Hazardous Substa	e (CAS 7758-29-4) Listed.			
Potassium hydroxide (C/ Sodium tripolyphosphate Clean Air Act (CAA) Section Not regulated.	AS 1310-58-3) Listed.			
Not regulated.				
Superfund Amendments and Re	eauthorization 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	No			
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting) Not regulated.				
Other federal regulations				
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Hazardous substance			
Safe Drinking Water Act (SDWA)	Not regulated.			
Food and Drug Administration (FDA)	Not regulated.			
US state regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.			

	oxide (CAS 1310-58-3)	Listed.	
	nosphate (CAS 7758-29-4)	Listed.	
US - California Prop	oosition 65 - Carcinogens & Re	eproductive Toxicity (CRT): L	listed substance
Not listed.			
US - Illinois Chemic	al Safety Act: Listed substand	e	
,	oxide (CAS 1310-58-3)	Listed.	
	nosphate (CAS 7758-29-4)	Listed.	
•	Reporting: Listed substance		
	oxide (CAS 1310-58-3)	Listed.	
	nosphate (CAS 7758-29-4)	Listed.	
	Subs: Listed substance		
•	oxide (CAS 1310-58-3)	Listed.	
	K - Substances: Listed subst	ance	
•	oxide (CAS 1310-58-3)	Listed.	
US - New York Rele	ase Reporting: Hazardous Su	bstances: Listed substance	
	oxide (CAS 1310-58-3)	Listed.	
	nosphate (CAS 7758-29-4)	Listed.	
	Screening Levels: Listed subs	tance	
	oxide (CAS 1310-58-3)	Listed.	
	cate (CAS 6834-92-0)	Listed.	
	nosphate (CAS 7758-29-4) RTK - Substance List	Listed.	
	oxide (CAS 1310-58-3)	Listed.	
	hosphate (CAS 7758-29-4)	Listed.	
•	TK - Hazardous Substances		
Potassium hydroxide (CAS 1310-58-3) Sodium tripolyphosphate (CAS 7758-29-4)		Listed. Listed.	
US. Rhode Island R		Listed.	
		Listed	
,	oxide (CAS 1310-58-3) hosphate (CAS 7758-29-4)	Listed. Listed.	
	lospilate (CAS 1150-23-4)	Elsted.	
ntory status			
Country(s) or region	Inventory name		On inventory (yes/no)
Canada	Domestic Substances Lis	t (DSL)	Ye
Canada	Non-Domestic Substance	s List (NDSL)	N

Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

16 Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Disclaimer

HEALTH	2	
FLAMMABILITY	0	2
PHYSICAL HAZARD	0	
PERSONAL PROTECTION	x	

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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	in this document.
Issue date	14-May-2015
Effective date	14-May-2015
Expiry date	14-May-2018
Further information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.
Prepared by	Nu-Calgon Technical Service Phone: (314) 469-7000

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.