



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name Nu-Calgon Wholesaler, Inc.	Phone Number (314) 469-7000 / (800) 554-5499	CHEMTREC (800) 424-9300		
Street Address 2008 Altom Court	City St. Louis	State MO	Postal Code 63146-4151	Last Update 1/25/07
Product Name CalClean, Special HD	Product Number 4143	Product Use Heavy Duty Cleaner/Degreaser		EPA Registration # N/A

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>% By Wt.</u>	<u>CAS Number</u>	<u>TLV</u>	<u>PEL</u>
Sodium Metasilicate	3-6%	6834-92-0	None Established	None Established
Nonionic Surfactant	1-3%	Proprietary	None Established	None Established
Potassium Hydroxide	1-3%	1310-58-3	2mg/m3 (TWA/STEL)	2mg/M3
Sodium Tripolyphosphate	3-6%	7758-29-4	None Established	None Established

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview: Alkaline detergent. Do not get in eyes, on skin or clothing. Avoid breathing spray or mist. Use only with adequate personal protection equipment.
Potential Health Effects
Eyes: Prolonged contact with eyes will cause severe irritation, possibly burns and permanent damage..
Skin: Contact with skin can cause moderate to severe irritation with pain, possibly produce chemical burns; irritation may be delayed.
Ingestion: Harmful if swallowed - may cause burns of the mouth, throat and stomach if ingested.
Inhalation: Inhalation of generated mists or spray may cause respiratory irritation or chemical burn of mouth, throat, and stomach.
Chronic Exposure: None currently known.
Carcinogenicity: None
Medical Conditions Aggravated by Exposure: An existing dermatitis.

SECTION 4 – FIRST AID MEASURES

Eyes: Flush eyes with water for at least 30 minutes and call a physician immediately. Speed of action is essential.
Skin: Remove contaminated clothing. Wash with large amounts of soap and water. If skin still feels slippery or if irritation persists, continue washing. Consult a physician in the case of any prolonged irritation
Ingestion: Do not induce vomiting. Immediately give large quantities of water or (preferably) milk and call a physician. Speed of action is essential.
Inhalation: Remove to fresh air. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.

SECTION 5 – FIREFIGHTING MEASURES

Flash Point: None to Boiling °F
Autoignition Temp: N/A°C/N/A°F
Hazardous Products of Combustion: Burning may produce oxides of carbon and other substances.
Flammable Limits in Air: N/A
Extinguishing Media: Product is non-combustible. Water Spray (Fog), Dry Chemical; CO ₂ ; or Foam may be used where product is stored.
Fire and Explosion Hazards: None
Special Firefighting Procedures: Do not enter confined fire-spaces without protective clothing and self-contained air supply.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak: Before attempting clean up, refer to personal protection information. Do not touch or walk through spilled material. Stop leak if you can without risk. Dike ahead of large spills to prevent run-off. Mop, pump or take up with sand or other inert absorbent and reclaim into containers for reuse, recycle or proper disposal.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment: Avoid contact with corrosion sensitive metals, leather and wood. Do not get in eyes, on skin or clothing. Sprays and generated mists can be irritating. Use only according to dilution instructions and with adequate protective clothing.

Storage Requirements: Keep container closed when not in use. Wash thoroughly after handling. D.O.T. Classification: Not Regulated

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Specific use conditions (spraying/confined spaces) where regulatory limits for KOH are exceeded, may require local exhaust ventilation to prevent release of mist &/or vapors into work environment. If ventilation is not adequate, use NIOSH/MSHA approved respirator with alkaline mist/gas cartridge & full face piece.

Eye Protection: Close fitting safety glasses/goggles/ face shield depending upon conditions of use.

Protective Clothing: Impervious protective clothing appropriate to minimize contact (ie: rubber boots, apron, faceshield) especially where sprayback/misting conditions exist. Rubber protective gloves.

Exposure Guidelines: KOH TLV = 2mg/M3. Eye wash station and safety shower in handling area.

Specific Engineering Controls (such as ventilation, enclosed process): Insure adequate ventilation to control KOH airborne concentration below TLV of 2Mg/M3. Eye wash station and safety shower in handling area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid	Freezing Point: 0°C/32°F	% Volatile by Weight: ~81%
Color: Opal	Vapor Density [air =1]: Not Determined	Evaporation Rate: (vs. H2O):About the same.
Odor: Mild, Pleasant Odor	Vapor Pressure: Not Determined	Specific Gravity: (H2O=1): 1.13 (+/-0.005)
Boiling Point: 100°C/212°F	Solubility in Water: Complete	pH (concentrate): 13.2 (=/-0.5)

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: None

Incompatibilities: Strong acids/oxidizers. Do not mix with chlorinated detergents (bleach).

Reactive Conditions to avoid: Do not mix with chlorinated detergents (bleach) or any other chemicals.

Decomposition Products: Burning may produce oxides of carbon and other substances.

SECTION 11 – TOXICOLOGICAL INFORMATION

Hazardous Ingredients	CAS #	EINECS #	LD 50 of Ingredient (Specify Species)	LC50 of Ingredient (Specify Species)
Potassium Hydroxide	1310-58-3		365 mg/kg (Oral; Rat)	Not Determined
Nonionic Surfactant	Proprietary		>5.0 g / kg (Oral ; Rat)	Not Determined
Sodium Metasilicate	6834-92-0		1280 mg/kg (Oral; Rat)	Not Determined
Sodium Tripolyphosphate	7758-29-4	231-838-7	3120 mg/kg (oral; Rat)	Not Determined

SECTION 12 – ECOLOGICAL INFORMATION

Hazardous Ingredients	Aquatic Toxicity Data
Potassium Hydroxide	LC50 (96 hr) = 179mg/l (Fathead Minnow)
Nonionic Surfactant	Not Determined
Sodium Metasilicate	LC50 (96 hr) = 247 mg/l (Daphnia Magna)
Sodium Tripolyphosphate	EC50 (48 hr) = >1,000 mg/l (Daphnia Magna)

SECTION 13 – DISPOSAL CONSIDERATIONS**Waste Disposal:** Dispose of in an approved waste facility according to Federal, State and local regulations.**SECTION 14 – TRANSPORTATION INFORMATION****Special Shipping Information:** No Data.

<u>Purview</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT (Land)	Not Regulated			
IMO (Water)	No Data.			
ICAO (Air)	No Data.			

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: (Workplace Hazardous Material Information System)	Class E - Corrosive Material
SARA Title III: (Superfund Amendments & Reauthorization Act)	Contains no Section 313 listed substances subject to reporting requirement.
OSHA: (Occupational Safety & Health Administration)	OSHA Hazardous - Acute hazard
TSCA: (Toxic Substance Control Act)	All ingredients are TSCA registered.
VOC: (volatile Organic Compounds)	Less than 1%
CPR: (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.
EINECS: (European Inventory of Existing Commercial Chemical Substances)	No Data.
DSL / NDSL: (Canadian Domestic Substance List)(Non-Domestic Substance List)	All ingredients are listed on the Canadian DSL.
CERCLA: (Comprehensive Response Compensation & Liability Act)	RQ = >10,000 lbs (KOH)
IDL: (Canadian Ingredient Disclosure List)	Sodium metasilicate and potassium hydroxide are listed.
NFPA (HMIS) Rating: (Hazardous Materials Identification System)	Health = 2 Flammability = 0 Reactivity = 1

SECTION 16 – OTHER INFORMATION

No Data.

The information contained herein is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herein.