

HC-212 HD Chlorinated Mechanical Detergent

Revision: 02/24/2015

Distributor: Southern Maintenance Supply Co. Inc. 320 Page Street, Lynchburg, VA 24501 (434)847-4396

1. Product and Company Identification

Product Code:	4161	
Product Name:	HC-212 HD Chlorinated Mechanical Detergent	
Company Name:	PDQ Manufacturing, Inc. 201 Victory Circle Ellijay, GA 30540	Phone Number: (706)636-1848
Web site address:	www.pdqonline.com	
Emergency Contact:	Chemtrec, Use Company Code: A814	(800)424-9300
Information:	info@pdqonline.com	(706)636-1848

2. Hazards Identification

Acute Toxicity: Oral, Category 4

Skin Corrosion/Irritation, Category 1A



GHS Signal Word:	Danger
GHS Hazard Phrases:	H302 - Harmful if swallowed. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do not induce vomiting. H314 - Causes severe skin burns and eye damage.
GHS Precaution Phrases:	P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases:	P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or physician for treatment advise. Have product container or label with you when calling poison control center or physician. P310 - Immediately call a POISON CENTER or doctor/physician. P321 - Specific treatment see ... on this label. P330 - Rinse mouth. P363 - Wash contaminated clothing before reuse.
GHS Storage and Disposal Phrases:	P405 - Store locked up. P501 - Unused product is not a RCRA Hazardous waste. However, contaminated product and wastes may be RCRA hazardous. Users are advised to determine the appropriate disposal method based on local, state and federal regulations and comply with those regulations.

SAFETY DATA SHEET

HC-212 HD Chlorinated Mechanical Detergent

Potential Health Effects (Acute and Chronic):	<p>Prolonged or repeated eye contact may cause conjunctivitis.</p> <p>Prolonged or repeated skin contact may cause dermatitis.</p> <p>Chronic: Effects may be delayed.</p>
Inhalation:	<p>Harmful if inhaled. Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Aspiration may lead to pulmonary edema. May cause systemic effects. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.</p> <p>No hazard expected in normal industrial use.</p>
Skin Contact:	<p>May cause deep, penetrating ulcers of the skin. Causes severe burns with delayed tissue destruction. Causes redness and pain. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color. Ingestion can cause burning pain in mouth, throat and abdomen - May be fatal if ingested. Causes skin burns. Non-irritating to the skin.</p>
Eye Contact:	<p>Causes severe eye burns. Contact may cause ulceration of the conjunctiva and cornea. Eye damage may be delayed. Causes redness and pain. When substance becomes wet or comes in contact with moisture of the mucous membranes, it will cause irritation. May cause chemical conjunctivitis and corneal damage. Non-irritating to the eyes.</p>
Ingestion:	<p>Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause circulatory system failure. Causes severe digestive tract burns with abdominal pain, vomiting, and possible death. May cause systemic effects. Causes burns. No hazard expected in normal industrial use.</p>

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-58-3	Potassium hydroxide {Caustic potash}	5.0 -15.0 %

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation:	If breathed in, move person into fresh air.
In Case of Skin Contact:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Discard contaminated clothing in a manner which limits further exposure. Destroy contaminated shoes. Consult a physician.
In Case of Eye Contact:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Continue rinsing eyes during transport to hospital.
In Case of Ingestion:	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Signs and Symptoms Of Exposure:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Note to Physician:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

5. Fire Fighting Measures

Flash Pt: NA Method Used: Estimate

Explosive Limits: LEL: UEL:

Autoignition Pt: NA

Suitable Extinguishing Media: Use dry sand or earth to smother fire. Use extinguishing media appropriate to surrounding fire conditions. Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Water reactive. Material will react with water and may release a flammable and/or toxic gas. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Use water with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials. May ignite or explode on contact with steam or moist air. Wear self contained breathing apparatus for fire fighting if necessary. Material will not burn.

Flammable Properties and Hazards:

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Do not expose spill to water.

Personal precautions.
Use personal protective equipment. Environmental precautions.
Do not let product enter drains.
Methods for cleaning up.
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

7. Handling and Storage

Precautions To Be Taken in Handling: Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Do not allow contact with water. Discard contaminated shoes. Keep from contact with moist air and steam. Avoid contact with skin and eyes. Normal measures for preventive fire protection. No special handling procedures are required.

Precautions To Be Taken in Storing: Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. No special storage requirements.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-58-3	Potassium hydroxide {Caustic potash}		CEIL: 2 mg/m3	

Respiratory Equipment (Specify Type):	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.
Eye Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Safety glasses.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Handle with gloves.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Engineering Controls (Ventilation etc.):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. There are no special ventilation requirements.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Clear tan liquid Mild odor.
Melting Point:	360.00 C
Boiling Point:	100.00 C
Autoignition Pt:	NA
Flash Pt:	NA Method Used: Estimate
Explosive Limits:	LEL: UEL:
Specific Gravity (Water = 1):	~ 1.2
Vapor Pressure (vs. Air or mm Hg):	
Vapor Density (vs. Air = 1):	
Evaporation Rate:	
Solubility in Water:	Complete
Viscosity:	Thin
pH:	> 12.5
Percent Volatile:	

10. Stability and Reactivity

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	
Incompatibility - Materials To Avoid:	Avoid contact with acids, reducing agents, oxidizers, nitrogen oxides, amines, ammonia or other nitrogen containing compounds. Acids, Incompatible with alkalis, sol carbonates, gold and silver salts, lead acetate, lime water, potassium iodide, potassium and sodium tartrate, sodium borate, tannin, vegetable astringent infusions and decoctions. chemically active metals, None.
Hazardous Decomposition Or Byproducts:	Oxides of potassium, hydrogen gas. formed under fire conditions. Sodium oxides, silicon oxides.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	

11. Toxicological Information

Toxicological Information: Epidemiology: No information found.
 Teratogenicity: No information available. Reproductive Effects: Mutagenicity:
 Neurotoxicity: Acute demal toxicity: LD50 rabbit
 Dose > 2,000 mg/kg

Skin irritation: Rabbit
 Non irritant

Eye irritation: Rabbit
 minimal irritant. No data available.

Other Studies:

Irritation or Corrosion: No data available.

Sensitization: No data available.

Chronic Toxicological Effects: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Carcinogenicity/Other Information: CAS# 1310-58-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
1310-58-3	Potassium hydroxide {Caustic potash}	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
 RCRA P-Series: None listed.
 RCRA U-Series: None listed. Product.
 Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging.
 Dispose of as unused product.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide)
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN3266 **Packing Group:** II



15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1310-58-3	Potassium hydroxide {Caustic potash}	No	Yes 1000 LB	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1310-58-3	Potassium hydroxide {Caustic potash}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

16. Other Information

Revision Date: 02/24/2015
Preparer Name: Regulatory Affairs

Hazard Rating System:

HEALTH	2
FLAMMABILITY	0
REACTIVITY	2
PPE	B

HMIS:

Additional Information About This Product:

Company Policy or Disclaimer:

The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.