

Product name : CleanKraft Heavy Duty Degreaser

Version 1.0

MSDS Number : SDCKHDD-001

Print date : 01-Mar-2016

**1. PRODUCT AND COMPANY IDENTIFICATION****Product information**

Trade name : Clean Kraft HDD
 Use of the product : Heavy Duty Degreaser
 Company : Innochem Labs (India) Private Limited
 Plot A 15, Road no. 9, IDA Nacharam,
 Hyderabad, Telangana 500 076.
 Emergency telephone : + 91-40-65551717, +91-7032150008

2. HAZARDS IDENTIFICATION

Eye Contact Corrosive. Can cause severe irritation to the eyes.

Skin Contact May cause severe irritation and chemical burns in contact with the skin.

Ingestion May cause irritation to the gastrointestinal tract.

Inhalation May cause irritation of the respiratory tract if inhaled for long duration.

Environmental Hazard See section 12 for additional ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Sodium hydroxide	1310-73-2	< 5%
Sodium metasilicate pentahydrate	10213-79-3	< 5%
Tetrasodium EDTA	10378-23-1	< 1%
Nonionic surfactant	9002-92-0	< 2-5%
Hexadecyl trimethyl ammonium chloride	112-02-7	< 2%
Amines, coco alkyl dimethyl, N-oxides	61788-90-7 / 1643-29-5	< 2%
Other ingredients classified as non hazardous according to NOHSC		to 100

4. FIRST AID AND MEASURES**4.2 Description of first aid measures**

Eye Contact	In case of contact with eyes, remove contacts if needed, immediately wash eyes with a large amount of water for
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	approximately 20 minutes. Seek immediate medical attention.
Skin Contact	Flush contaminated skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects	
Eye Contact	Corrosive. Can cause severe irritation to the eyes.
Inhalation	May cause irritation of the respiratory tract if inhaled for prolonged duration.
Skin Contact	May cause severe irritation and chemical burns in contact with the skin.
Ingestion	May cause irritation to the gastrointestinal tract.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically. Material is alkali. If skin burns are present, treat as any thermal burn after decontamination. Eye irrigation may be necessary for extended period of time to remove as much alkali as possible. No specific antidote. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.

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5. FIRE-FIGHTING MEASURES

Specific Dangers:	None
Flash point:	Water solution, will not burn
Flammability:	Not flammable.
Extinguisher Type:	This material, in its original form, is not a fire hazard. Use media appropriate to extinguish surrounding fire.
Specific methods:	Standard procedure for chemical fires.
Fire-fighting equipment:	When this material is present in the area of a fire, following protective equipment if recommended: chemical goggles, body-covering protective clothing, chemical resistant gloves and rubber boots.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). High pH of the material is harmful to aquatic life.
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6.3 Methods and materials for containment and cleaning up

Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up. Use appropriate PPE.
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Large spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
<p>6.4 Reference to other sections: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.</p>	
<p>7. HANDLING AND STORAGE</p>	
<p>The information in this section contains generic advice and guidance. The list of identified Uses in Section 1 should be consulted for any available information provided in the Exposure scenarios(s).</p>	
<p>7.1 Precautions for safe handling</p>	
Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
<p>7.2 Conditions for safe storage, including any incompatibilities</p>	
Storage	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not

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	store in unlabeled containers. Use appropriate containment to avoid environmental contamination						
7.3 Conditions for safe storage, including any incompatibilities							
Recommendations		Hand Wash with soap and water.					
Industrial sector specific solutions		Not available.					
8. EXPOSURE CONTROLS/PERSONAL PROTECTION							
Exposure Standards: Exposure Standards ¹ have been set for the following ingredients:							
Ingredient	CAS No.	TWA		STEL		Carcinogen Category	Notices
		mg/m ³	ppm	mg/m ³	ppm		
Sodium hydroxide	1310-73-2	2	-	peak limitation		-	-
TWA = Time Weighted Average STEL= Short Term Exposure Limit ¹ Worksafe Australia Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003 1995]							
Engineering Controls		For occupational exposures, ensure adequate ventilation. Keep containers closed.					
<u>Personal Protective Equipment</u>							
Respiratory protection:		No personal respiratory protective equipment normally required. Use in a well-ventilated area. Emergency responders should wear self-contained breathing apparatus to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.					
Skin and body protection:		In case of continuous exposure or occupational operations, wear lightweight protective clothing. Chemical resistant apron. When handling bulk quantities, wear suitable gloves, safety glasses and protective clothing. Emergency responders should wear impermeable gloves (Nitrile or Neoprene gloves is recommended).					
Eye protection:		Corrosive to eyes. Avoid contact with eyes. Wear eye / face protection. Emergency responders should wear face fields, chemical goggles or safety glasses with side shield protection.					
Hygiene measures:		Avoid contact with skin, eyes and clothing. Wash hands with soap and water after handling.					

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Appearance	Clear, blue color liquid.
Colour	Brilliant Blue
Odour	Citrus.
pH	11.5-12.5 (10% solution) at 30°C
Vapour Pressure	Not determined
Melting point/Freezing point	Not available
Specific Gravity	1.027 – 1.017 g/cm ³
Flashpoint	Not flammable
Viscosity	Not available
Solubility	Completely soluble in water.
<u>Explosion limits:</u>	
- Upper:	No data available
- Lower:	No data available

10. STABILITY AND REACTIVITY

Stability	No specific test data related to reactivity available for this product. Stable under recommended storage conditions.
Polymerization:	Hazardous polymerization does not occur.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Incompatible materials	Incompatible with strong oxidising agents and strong acids, organic materials, aluminium, tin, zinc and nitro compounds.
Hazardous Decomposition Products:	Products may include oxides of carbon and unknown organic compounds, hydrogen gas and Carbon monoxide.

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Conditions to avoid: Avoid contact with Acids. Avoid contact with Oxidizers or Oxidizing Materials.

11. TOXICOLOGICAL INFORMATION

Product Information

LC50/inhalation/4h/rat No information available.
LD50/dermal/rabbit No information available.
LD50/oral/rat No information available.

This material has not been tested for primary eye irritation potential. However, on the basis of its high degree of alkalinity, it is regarded as corrosive to the eyes.

Component Irritation Data

Ingredient	Species	Result	Dose	Exposure
Sodium Hydroxide	Rabbit (Skin)	Severe irritation	500 mg	24 hour
	Rabbit (Eyes)	Severe irritation	1 mg	30 sec rinse

Component Toxicity

The hazard identifications in Section 2 were derived from the known effects of the individual ingredients and their concentrations in the product.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Metasilicate pentahydrate	847 mg/Kg (Rat)	---	---
Amines, coco alkyldimethyl, N-oxides	> 2000 mg/Kg	---	---
Hexadecyl trimethyl ammonium chloride		4300 uL/Kg/24H	

Summary of Product Toxicity Effects

Acute Effect(s)

Skin irritation: May cause severe irritation to the skin with prolonged/repeated contact.

Eye irritation: Can cause severe irritation to the eyes.

Inhalation: May cause irritation of the respiratory tract if inhaled.

Ingestion: May cause irritation to the gastrointestinal tract.

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**Chronic toxicity:**

The chronic toxicity of this product has not been determined.

Specific effects**Carcinogenic effects:**

Not listed as carcinogenic by OSHA, NTP or IARC.

Sensitization:

No information available.

Mutagenic effects:

No information available.

Reproductive effects:

No information available.

Target organ effects:

No information available.

Information is based on data on the components and the toxicology of similar products.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Product/Ingredient Name	Result	Species	Exposure
Amines, coco alkyldimethyl, N-oxides	Acute toxicity LC50 10.0-100.0 mg/l	Brachydanio rerio (zebra fish)	96 h
	Immobilization EC50 4.40 mg/l	Daphnia magna (Water flea)	48 h
	Cell multiplication inhibition test EC50 0.11 mg/l	Green algae	96 h
	Growth inhibition EC50 190.0 mg/l	Pseudomonas putida	16 h
Hexadecyl trimethyl ammonium chloride	Acute toxicity LC50 0.7 mg/l	Brachydanio rerio (zebra fish)	96 h

Product Ecotoxicity:

The ecotoxicity of this product has not been determined.

Component Ecotoxicity:

Release of large quantities into water may cause a pH change resulting in danger for aquatic life.

Additional Ecological Information:

Bulk quantities, if spilled, should be handled as per local regulations. Control and clean up all exterior spills and prevent liquid from entering any streams, rivers, lakes and all other bodies of water.

13. DISPOSAL CONSIDERATIONS**Waste from residues/ unused**

Packaging to be recycled only if emptied completely.

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products:	Empty liquid container can be discarded in the trash or recycled where appropriate.
Contaminated packaging:	Packaging and container to be recycled only if emptied completely.
Waste Disposal:	Wear protective equipment. Keep unprotected persons away. Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Sweep or vacuum material avoiding dust generation. Ensure adequate ventilation. Dispose of contaminated material as waste. Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose in accordance with local, state and federal EPA waste regulations. Neutralization is the preferred method of disposal. Large quantities of waste liquid: Contain and collect for evaluation and disposal according to local, state Provincial and federal regulations.
14. TRANSPORT INFORMATION	
Hazard Class:	8
DOT proper Shipping Name:	Compounds, cleaning liquid, (contains Sodium hydroxide, Sodium Metasilicate and Lauryl amine oxide), 8, NA 1760, PG III
Reportable Quantity:	249,850 lbs. based on Sodium Hydroxide content in blend.
15. REGULATORY INFORMATION	
Regulatory Status	Not applicable.
Hazardous Substances Regulation	hazardous Chemical
Hazard Symbols	C
Risk Phrase(s)	R 22 Harmful if swallowed. R 36 - Irritating to eyes R 37 – Irritating to respiratory system.
Environmental Risk Phrase	None

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Safety Phrase(s)	S 13 Keep away from food, drink and animal feeding stuffs. S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S 45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
16. OTHER INFORMATION India: Regulatory, Safety & Environmental Services Within India Ph: 91-40-65551717, 91-7032150008 The information contained in this MSDS was compiled using the latest and most reliable information available to Innochem Labs. The information is provided without any warranty, expressed or implied regarding its correctness or accuracy. Similarly no warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission from this MSDS nor will Innochem Labs assume any liability for any loss or damage arising out of the use of this information. It is solely the responsibility of the user to determine safe conditions for use of this product and to assume liability for any loss, damage or expense whatsoever arising out of the product's improper use.	
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