

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION:

Product Name: NuKlean HDT 333

Product Number: GCK123

CAS Number: Blend

COMPANY INFORMATION:

NuGeneration Technologies, LLC

 100 Professional Center Drive, Rohnert Park, CA 94928 USA www.nugentec.com

(707) 820-4080 (For information)

(800) 424-9300 or (202) 483-7616 (CHEMTREC: Emergencies)

SPECIAL NOTES: Highly Alkaline spray (low foaming), cleaner made for high pressure spray applications and agitated tank cleaning. THIS PRODUCT IS BIODEGRADABLE.

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0% NuKlean HDT 333

CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

Chemical Name	Amount	CAS Number
SODIUM HYDROXIDE	< 5.0 %	34590-94-8
POTASSIUM HYDROXIDE	< 30.0 %	1310-58-3

NON-HAZARDOUS COMPONENTS

Chemical Name	Amount	CAS Number
POTASSIUM PHOSPHONATE	< 10.0 %	TRADESECRET
NONIONIC SURFACTANT BLEND	< 5.0 %	68603-25-8

(See Section 8 for exposure guidelines) (See Section 15 for regulatory information)

HAZARDS DISCLOSURE: This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains no known hazardous materials.

MISCELLANEOUS: Contains Potassium Hydroxide.



3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
WARNING
Corrosive material. Avoid eye contact. Can cause skin/eye irritation and or burns.

HMIS Rating Health: 2 Flammability: 0 Reactivity: 1 Personal Protection Index: C

NFPA Rating Health: 2 Flammability: 0 Reactivity: 1 Special Hazard: Corrosive

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS:

EYE: Corrosive to eyes. Contact causes severe eye irritation and or burns with possible permanent damage.

SKIN: Contact causes severe skin irritation and possible burns.

INHALATION: No hazards expected in normal industrial use at room temperature. Vapors and/or aerosols which may be formed at elevated temperatures may be corrosive to eyes and respiratory tract.

INGESTION: May be harmful if swallowed. Can burn mouth, throat, and stomach.

SIGNS AND SYMPTOMS OF EXPOSURE: If exposed areas are flushed promptly and thoroughly with water, there should be little or no harm. Long-term exposure may lead to rash or burn.

CARCINOGENICITY INFORMATION: No known cancer hazards.

MISCELLANEOUS: Solutions extremely slippery when spilled.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT FIRST AID: Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

INHALATION FIRST AID: Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen. Get medical attention if cough or other symptoms develop. Remove from area of exposure. Seek immediate medical attention if respiratory irritation or distress continues.

INGESTION FIRST AID: Give milk or water. Do not induce vomiting. Get medical attention immediately.

STATEMENT OF PRACTICAL TREATMENT: Always have plenty of water available for first aid.

NOTES TO PHYSICIAN: Treat patient symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Auto-ignition Temperature: None
CO Flash Point: None TCC Flash Point: None

FLAMMABLE LIMITS IN AIR: LEL: None UEL: None

EXTINGUISHING MEDIA: Will not burn.

FIRE & EXPLOSION HAZARDS: Material will not burn.

FIRE FIGHTING INSTRUCTIONS: Contaminated extinguishing water must be disposed of in accordance with applicable regulations.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL): Protect skin and eyes from exposure. Wear appropriate personal protective equipment.

INITIAL CONTAINMENT: Floor may become slippery. Contain spilled material. Wash area to prevent slipping. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

LARGE SPILLS PROCEDURE: Forms smooth, slippery surfaces on floors, posing an accident risk. Clean up spills immediately, observing precautions in Protective Equipment section. Neutralize spill with a weak acid such as vinegar or acetic acid. Flush spill area with water to wastewater treatment system. After removal, flush contaminated area thoroughly with water. Or, absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container dispose of in an approved sanitary landfill. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

SMALL SPILLS PROCEDURE: Floor may become slippery. Wash with water or absorb spills with inert material. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE: Min: 4.4°C (39.9°F) Maximum: 48.9°C (120.0°F)

HANDLING (PERSONNEL): Avoid contact with eyes, skin, and clothing. Empty drums should be completely drained (triple rinsed), properly bunged, and promptly returned to a drum re-conditioner, or

properly disposed of. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

HANDLING (PHYSICAL ASPECTS): Keep container closed to avoid contamination.

STORAGE PRECAUTIONS: Store in a cool dry place. Do not stack drums more than three pallets high.
Store in a tightly closed container.

SPECIAL SENSITIVITY: Exposure of product to direct sunlight may lead to discoloration (darkening) but will not effect cleaning performance.

MISCELLANEOUS: Do not stack over three pallets high.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

EYE / FACE PROTECTION REQUIREMENTS: When splashing of the material may occur, chemical goggles and a face shield are recommended.

SKIN PROTECTION REQUIREMENTS: Wear protective gloves to minimize skin contact. Nitrile rubber and PVC are suitable protective materials; Neoprene is recommended. Wash hands thoroughly after handling.

RESPIRATORY PROTECTION REQUIREMENTS: Under normal use conditions, with adequate ventilation, no special handling equipment is required. At elevated temperatures, > 110°F, ventilation is required.

MISCELLANEOUS: Where an apron and protective clothing.

EXPOSURE GUIDELINES: No Information Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM	Liquid	COLOR	Amber
ODOR	Mild	BOILING POINT	>212°F
SOLUBILITY IN WATER	Complete	SPECIFIC GRAVITY	1.340 (Water = 1)
BULK DENSITY	11.2	MELTING/FREEZING POINT	>32°F
pH	13.8	% VOLATILES	0 %
pH (5% B.V.)	13.2		

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS: May react with acidic materials. May corrode copper, aluminum, zinc, and their alloys.

DECOMPOSITION: Decomposition will not occur if handled and stored properly. Product may decompose at temperatures above 270°C and release carbon, nitrogen or oxides.

CONDITIONS TO AVOID: This material is safe under normal storage and handling conditions. Avoid contact with this material and copper, aluminum, zinc, and their alloys.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Can cause severe eye irritation.

SKIN EFFECTS: Contact may cause skin irritation.

ACUTE ORAL EFFECTS: No know hazards in normal industrial use.

ACUTE INHALATION EFFECTS: No know hazards in normal industrial use.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Unclean empty containers should be disposed of in the same manner as the contents. Dilute or neutralize with acid and discharge to an industrial sewage treatment facility. Or bury in an approved sanitary landfill. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. For additional waste disposal information contact your local NuGenTec representative at (888) 99-NuGen.

CONTAMINATED MATERIALS: Wash contaminated clothing before reuse.

CONTAINER DISPOSAL: Containers should be triple rinsed prior to disposal.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL.....NuKlean HDT 333
D.O.T. SHIPPING NAME.....Corrosive Liquid
TECHNICAL SHIPPING NAMECorrosive Liquid, Potassium Hydroxide & Sodium Hydroxide Mixture
D.O.T. HAZARD CLASS.....Corrosive
UN NUMBER1760 Corrosive Liquid, NOS
PRODUCT RQ (lbs).....3,000
D.O.T. LABEL.....Corrosive Liquid, Packing Group III
D.O.T. PLACARD#8
BULK CLASS.....N/A
PACKAGE CLASS.....55, PG III

MISCELLANEOUS: Export Classification, organic surface active agents (other than soap), washing preparations and cleaning preparations, schedule B # 3402.90.5030.

15. REGULATORY INFORMATION

EEC Symbols and Indications of Danger: Corrosive (C)

R-Phrases: R34 - Causes burns. R36/38 - Irritating to eyes and skin.

S-Phrases: S24/25 - Avoid contact with skin and eyes.

WHMIS Hazard Symbols: Class E - Corrosive Material

Canadian Disclosure List: Potassium Hydroxide (1310-58-3); Sodium Hydroxide (1310-73-2)

CERCLA Hazardous Substances: Potassium Hydroxide (1310-58-3) -- RQ 1000 lb

Sodium Hydroxide (1310-73-2) -- RQ 1000 lb

FDA (FOOD AND DRUG ADMINISTRATION):

This Product Meets FDA/USDA requirements for cleaning in the food processing industry.

MISCELLANEOUS INFORMATION: This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS).



16. OTHER INFORMATION

Prepared By: Donato Polignone
PRD Number: GCK123 (Official Copy)

Approval Date: June 15, 2009
Supersedes Date: April 3, 2002

ADDITIONAL INFORMATION: The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of NuGeneration Technologies, LLC. The data on this sheet are related only to the specific material designated herein. NuGeneration Technologies, LLC assumes no legal responsibility for use or reliance upon these data.

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