



Heavy Duty Hull Cleaner

More product information can be found on our website at: www.northamericanbio.com

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Section I: Product Information

Trade Name: HEAVY DUTY HULL CLEANER
Chemical Name and Synonyms: Surfactant Solution
C.A.S. Registry Number: N/A - Mixture
D.O.T. Proper Shipping Name: Non-Hazardous Liquid
D.O.T. Hazard Class: Non-Hazardous

Chemical Family: Water Based Cleaner
Formula: Proprietary Blend
D.O.T. Label: N/A
D.O.T. Identification NO.: N/A

Section II: Physical Data

Specific Gravity: 1.007
Freezing Point: 32°F (water)
Boiling Point: 212°F (water)
Vapor Pressure: N/A
Appearance & Odor: Clear liquid with slight medicinal smell

Finished Product Weight: 8.38 lbs./gal.
pH: 11.9
Solubility in Water: Complete
Evaporation Rate: As water
Percent Volatile (wt.%): Not determined

Section III: Ingredients

Ingredient	CAS#	Percent	TLV Level	PEL Level
Water	7732-18-5	60-100	N/A	N/A
2-Butoxyethanol	111-76-2	4-8	N/A	N/A
Monoethanolamine	141-43-5	1-5	N/A	N/A

Sara Hazard: Title III: Contains Glycol Ether listed at <15% by weight

Section IV: Fire and Explosion Data

Flashpoint: N/D
Extinguishing Media: For fires use water spray, dry chemical or carbon dioxide.
Special Fire Fighting Procedures: Evacuate area of all unprotected personnel. Wear proper safety equipment.
Unusual Explosion Hazards: Extreme heat may cause pressure to build up inside drum. Any proposed use of this product at extreme temperatures is not recommended.

Section V: Reactivity Data:

Stability: Stable
Incompatibility: Strong alkalis, strong oxidizers, acids, strong reducers
Hazardous Decomposition Products: Burning can produce carbon monoxide and/or carbon dioxide
Hazardous Polymerization: Will not occur
Conditions to Avoid: N/A

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Section VI: Spill/Leak and Disposal Procedures

In case material is spilled or leaked: Do not walk through spilled material. Dike area to prevent run-off.
Waste disposal method: Observe all federal, state and local regulations. Volatile Organic Compound (VOC): <15%.

Section VII: Health Data

Threshold limit value: Not established by OSHA.
Effects of Overexposure
Eye Contact: Corrosive. May cause permanent damage including blindness.
Skin Contact: Corrosive. May cause permanent damage including blindness.
Inhalation: May cause irritation and corrosive effects to nose, throat and respiratory tract.
Ingestion: Corrosive. May cause burns to mouth, throat and stomach.

Emergency First Aide Procedures

Eye Contact: Flush eyes thoroughly with plenty of water. Hold lids open while flushing. Contact a physician.
Skin Protection: Flush area thoroughly with fresh water, use soap if available. If irritation persists, contact a physician.
Inhalation: Remove affected person to fresh air. If breathing is difficult, call a physician.
Ingestion: Do not induce vomiting. Drink one cupful of water or milk. Call a physician.

Section VIII: Special Protection Information

Consult your Safety Equipment Supplier

Eye Protection: Safety glasses or goggles with a face shield.
Skin Protection: Chemical resistant gloves. Includes: Neoprene gloves. Rubber gloves.
Respiratory Protection: If mists/vapors are not adequately controlled by ventilation, use appropriate protection Program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must Be followed whenever workplace conditions warrant a respirator's use.
Other Protective Equipment: N/A

Section IX: Special Precautions

Storage Handling Precautions: Store in cool, dry area. Keep out of direct sunlight. Do not store near flames or other heat sources. Keep containers tightly closed. Make sure all containers are labeled properly. Read and understand the MSDS before using any chemical product. For industrial and commercial use only.
Other Precautions: Avoid prolonged eye contact and skin contact. Avoid breathing vapors. Do not swallow. Wash hands thoroughly after handling.

Section X: Supplemental Health Information

Carcinogen Content: This product does not contain greater than 0.1% of the known or potential carcinogens in NTP, IARC, or OSHA.
Proposition 65: If your business resides in the state of California, we are providing this information pursuant to the California Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). It is not feasible to subject all products to the detailed analyses required to determine whether the materials known to cause cancer or reproductive toxicity are present in detectable quantities. However, based on available data, none of the chemicals listed by the governor of California are present in this product.