

# MATERIAL SAFETY DATA SHEET

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SECTION I				
<b>Product Identity (Name / Number)</b>		HOT CLEAN Heavy Duty Cleaner & Degreaser / 9674		
<b>Chemical Family</b>		Alkaline Cleaning Compound		
SECTION II - Hazardous Ingredients				
Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Ethylene glycol monobutyl ether (2-butoxyethanol)	50ppm	25ppm		Proprietary
Diethanolamine	3ppm	15 mg/m <sup>3</sup>		Proprietary
SECTION III - Physical & Chemical Characteristics				
<b>Boiling Point</b>	Above 212°F	<b>Specific Gravity</b>	1	
<b>Vapor Pressure (mm Hg)</b>	N/A	<b>Melting Point</b>	N/A	
<b>pH</b>	11	<b>Evaporation Rate (Ethyl Ether=1)</b>	Less than 1	
<b>Solubility in Water</b>	Complete	<b>Appearance / Odor</b>	Clear Liquid (generally green, but also available in other colors) / Mild Solvent	
SECTION IV - Fire & Explosion Hazard Data				
<b>Flammable Limits (Explosive Limit)</b>	<b>Upper:</b>	N/A	<b>Lower:</b>	N/A
<b>Flash Point (Method Used)</b>	N/A			
<b>Extinguishing Media</b>	Material is non-flammable. Water spray, foam, carbon dioxide, or dry chemical may be used for surrounding fires.			
<b>Special Fire Fighting Procedures</b>	Product is not flammable. Wear full protective clothing.			
<b>Unusual Fire and Explosion Hazards</b>	Avoid contact with aluminum, zinc, tin and their alloys since product reacts with these metals generating hydrogen gas which is flammable and/or explosive when ignited. Do not mix with strong acids to prevent violent or explosive reaction.			
SECTION V - Reactivity Data				
<b>Stability:</b>	<b>Unstable</b>	X	<b>Stable</b>	
<b>Hazardous Polymerization:</b>	X	<b>Will Not Occur</b>		<b>May Occur</b>
<b>Conditions To Avoid</b>	Excessive heat			
<b>Incompatibility (Materials to Avoid)</b>	Strong acids; also see Section IV.			
<b>Hazardous Decomposition or Byproducts</b>	Thermal decomposition may form carbon monoxide and carbon dioxide.			

**SECTION VI(a) - Health Hazard Data**

<b>Inhalation</b>	Irritating to mucous membranes. Breathing mists may cause damage to nasal and respiratory passages.
<b>Eye</b>	Even slight contact of the liquid with eyes will result in irritation and severe burns.
<b>Skin</b>	Product is irritating. Buming sensation may be delayed. Treat immediately.
<b>Ingestion</b>	Swallowing will result in severe damage to mucous membranes. Ingestion may cause intense pain, nausea, vomiting and collapsing.

**Reported As Potential Carcinogen or Carcinogen**

	<b>International Agency for Research on Cancer</b>	X	<b>Not Applicable</b>
	<b>National Toxicology Program</b>		<b>OSHA</b>

**SECTION VI(b) - First Aid Procedures**

<b>Inhalation</b>	Remove victim to fresh air. If breathing is difficult, administer oxygen. If not breathing, perform artificial respiration. Get medical attention.
<b>Eye</b>	Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention.
<b>Skin</b>	Wash thoroughly with water for at least 15 minutes. Remove contaminated clothing. Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting. Give large quantities of water if conscious and alert. Follow by administering milk. Get medical attention.

**SECTION VI(c) - Employee Protection**

**Respiratory Protection (Utilize NIOSH approved respirators. Refer to manufacturer's protection factors and OSHA standard 1910.134 as a guideline. )** If TLV of product is exceeded, use NIOSH approved respirator, fully enclosed.

**SPECIAL PROTECTION INFORMATION:**

<b>EYE</b>	Chemical safety goggles or full face shield required if eye contact is possible.
<b>SKIN</b>	Chemical resistant gloves required, natural and butyl rubber gloves suggested.
<b>VENTILATION</b>	Provide sufficient mechanical ventilation to maintain exposure below TLV's.
<b>SPECIAL PROTECTION</b>	Impervious clothing and boots may be worn to prevent skin contact. Showers and eyewash facilities should be in close proximity.

**SECTION VII - Special Precautions**

<b>Handling and Storage</b>	Store in dry, cool area. Do not store in metal containers. Excessive heat may cause pressure build-up. Avoid contact with organic halogen compounds and nitro compounds. Do not store with strong acids.
<b>Other Precautions</b>	Not applicable

**SECTION VIII - Environmental Protection**

<b>Spills / Releases</b>	Trained personnel wearing protective equipment should contain spill. Neutralize with dilute acid. Scoop up and wash site. Notify authorities for spills of 100 gallons or more.
<b>Waste Disposal Method</b>	In accordance with applicable local, state and federal regulations.

**DISCLAIMER**

The information contained herein is based upon data available to us and reflects our best professional judgment. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his particular purpose and should comply with all federal, state and local regulations. Our goal is to manufacture products with zero or minimal hazards. Our products are improved daily as up-to-date information and research is received from our suppliers to use products with less or no hazards. Please feel free to contact us for current information.