

MATERIAL SAFETY DATA SHEET
OSHA Hazard Communication Standard
29 CFR 1910.1200

Section I

Product Name: WORKHORSE	Manufactured by: Taylor Laboratories, Inc
Product Code: CB-3138	Address: P.O. Box 15146, Chattanooga, TN 37415
Chemical Family: Liquid Cleanser	Business Phone: 423-267-5601
Chemical Formula: Mixture	Emergency Phone: 423-267-5601
MSDS Revision Date: 11/15/99	Distributed By: NORTH GEORGIA PAPER
	Address: PO BOX 1507, BLUE RIDGE, GA 30513
	Business Phone: (706) 632-2055
	Emergency Phone: (706) 632-2055

Department of Transportation Federal Motor Carrier Hazardous Material Shipping Regulations

Proper Shipping Name: Compound, cleaning liquid (contains potassium hydroxide)		
Hazard Class: 8	Identification Number: NA 1760	Packaging Group: II
Comments: NAERG96, GUIDE 154		For Transportation Emergencies, Call: Chemtrec 1-800-424-9300

Section II - Hazardous Ingredients/Identity Information

HAZARDOUS COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	COMMENTS
2-Butoxyethanol	111-76-2	25 ppm	25 ppm	SARA Title III
Sodium Metasilicate	6834-92-0	N.E.	N.E.	Eye and skin irritation hazard
Anionic and Non-ionic surfactants	N/A	N.E.	N.E.	Eye irritation hazard
Potassium hydroxide	1310-58-3	2 mg/M3	2 mg/M3	Extreme eye hazard, corrosive liquid
Coupling Agents	N/A	N.E.	N.E.	Eye irritation hazard
Sequestrants	N/A	N.E.	N.E.	Eye irritation hazard

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals appearing in 40 CFR 372 (Section 313). Section 313 information must be included in all MSDS's that are copied and distributed to end-users. For help and additional information concerning Title III call the EPA Hotline at 1-800-535-0202.

Section 313 Component	Percent Range	Section 313 Component	Percent Range
2-Butoxyethanol	7.0-8.0%		

Section III - Physical/Chemical Characteristics

Boiling Point: 212 degrees F	Vapor Pressure (mm Hg): N/A	Summary of Hazard Rating (HMIS)		
Freezing Point: N/A	Vapor Density: N/A	Hazard	Rating	Key
pH (1%): 12.05	Evaporation Rate: N/A	Health:	2	0-Minimal 3-High
Solubility in Water: Excellent	Specific Gravity (H2O=1): 1.074	Fire and explosion:	0	1-Slight 4-Extreme
		Reactivity:	0	2-Moderate

Appearance and Odor: Clear, red liquid with a butyl-type odor.

Section IV - Fire and Explosion Data

Flash Point (method): N/A	Flammable Limits in Air, % by Vol.	LEL N/A	UEL N/A
Extinguishing Media: Use dry foam or CO2. Use water spray to cool containers if possible.			
Special Fire Fighting Procedures: As with all chemical fires, wear a self-contained breathing apparatus in confined areas or where smoke or fumes can drift or accumulate.			
Unusual Fire and Explosion Hazard: N/A			

Section V - Reactivity Data

Stability (unstable/stable): Stable	Hazardous Polymerization: Will not occur.
Stability Conditions to Avoid: Avoid temperature extremes. Keep from freezing.	
Incompatibility (Materials to Avoid): Strong acids.	
Hazardous Decomposition or By-products: Carbon dioxide and/or carbon monoxide may be evolved under extreme conditions.	

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Section VI - Health Hazard Data			
Threshold Limit Value: Not established			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards-Acute: EYES-Causes irritation or burns depending on severity of exposure. SKIN-Causes irritation or defatting of skin. Prolonged exposures may allow 2-Butoxyethanol to be absorbed resulting in possible hemoglobinuria. INGESTION-Causes gastrointestinal irritation or burns. INHALATION-Irritates nose, throat, mucous membranes. Prolonged inhalation or severe exposures can cause hemolysis (destruction of red blood cells).			
Health Hazards-Chronic: N/A			
Carcinogenicity: Not carcinogenic	OSHA Regulated? Not carcinogenic	NTP? Not carcinogenic	
Effects of Overexposure: Causes irritation or burns to skin, eyes, mucous membranes, digestive system, and respiratory system. Skin absorption of 2-Butoxyethanol is possible in severe or prolonged exposures.			
Emergency and First Aid Procedures:			
Ingestion (swallowing): DO NOT INDUCE VOMITING! Give 1 to 2 glasses of water or milk to dilute. If vomiting does occur, place head below hips to prevent inhalation of liquid into lungs (aspiration hazard). Seek medical attention IMMEDIATELY.			
Skin Contact: Flush area thoroughly with large amounts of running water. Seek medical attention if irritation persists or develops.			
Eye Contact: Flush eyes thoroughly with running water for at least 15 minutes. Seek medical attention IMMEDIATELY.			
Section VII - Spill or Leak Procedures			
Steps To Be Taken in Case Material is Released or Spilled: Obtain and wear protective equipment. Small spills may be flushed into a sewer connected to a private or municipal treatment facility if approval is given to do so. Follow with sufficient water to flush system. For large spills, neutralize the material with a sufficient quantity of weak acid to lower the pH to an acceptable range (pH = 6-9). Flush the area with a large amount of water into a suitable sewer connected to a private or municipal treatment facility if approval is given to do so by Federal, state and local authorities.			
Waste Disposal Method: This product contains material listed in EPA SARA Title III regulations. Contact federal, state, and local authorities for current disposal and reporting requirements.			
Section VIII - Special Protection Information			
Respiratory Protection (specify type): Maintain adequate ventilation to prevent concentrations of vapor and mist above the TLV. If vapor or mist cannot be controlled, wear an approved respirator with an organic cartridge. Use caution when using materials on hot surfaces as this increases the evaporation rate producing additional quantities of vapor.			
Ventilation: Provide sufficient ventilation to prevent accumulation of vapor and mist.			
Local Exhaust: Provide local exhaust if general ventilation is insufficient to control vapor.			
Mechanical (general): Maintain adequate ventilation to prevent accumulation of vapor and mist.			
Protective gloves: Wear rubber gloves to prevent skin contact irritation and skin absorption.			
Eye Protection: Wear safety glasses or goggles to prevent eye contact.			
Other Protective Equipment: An eye wash and safety shower should be provided near the point of use.			
Section IX - Special Precautions			
Precautions To Be Taken in Handling and Storage: Do not freeze. Wear suitable protective equipment and clothing. Wash contaminated clothing thoroughly before reuse.			
Other precautions: Keep out of reach of children.			
Section X - User Responsibility			
The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.			