



## MATERIAL SAFETY DATA SHEET

P.O. Box 20, Milton, FL 32570  
[www.amroproducts.com](http://www.amroproducts.com)

To Reorder Call:  
 855-949-2676

### 1. PRODUCT AND COMPANY IDENTIFICATION

FOR MEDICAL AND TRANSPORTATION EMERGENCIES  
 24 Hour INFOTRAC (US and CANADA): 800-535-5053

**PRODUCT NAME**  
 Heavy Duty Cleaner/Degreaser

**USE/DESCRIPTION**  
 Heavy Duty Cleaner Degreaser

**REVISION DATE**  
 August 29, 2011

#### HMIS III HEALTH (0 = Maximum Safety) **3**

Always follow Label Directions and Cautions.

\* Chronic 2 Moderate  
 4 Severe 1 Slight  
 3 Serious 0 Minimal

See Hazards Identification Section of this MSDS for more detailed information.

#### PHYSICAL HAZARD (0 = Maximum Safety) **0**

Susceptible to Release of Energy.

4 May detonate-vacate area if materials are exposed to fire. 2 Violent chemical change possible-use hose stream from distance  
 3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers. 1 Unstable if heated-use precaution.  
 0 Normally stable.

#### FLAMMABILITY (0 = Maximum Safety) **0**

Susceptibility of Material to Burning.

4 Extremely flammable. 1 Must be preheated  
 3 Ignites at normal temperature. to burn.  
 2 Ignites when moderately heated. 0 Will not burn.

**PERSONAL PROTECTION: n & p**



### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS#	%Range	ACGIH (TLV-TWA)	OSHA (PEL-TWA)	LD50 (Species/Route)	LC50 (Species)
Dipropylene glycol monomethyl ether	34590-94-8	5-10	Skin: 150 ppm	Skin: 100 ppm	5135 mg/kg (Rat/oral)	NE
Monoethanolamine	141-43-5	7-13	3 ppm	3 ppm	2050 mg/kg (Rat/oral)	NE
Potassium Hydroxide	1310-58-3	5-10	NE	NE	365 mg/kg (Rat/oral)	NE
Sodium metasilicate	6834-92-0	1-5	NE	NE	1153 mg/kg (Rat/oral)	NE

### 3. HAZARDS IDENTIFICATION

**Eyes:** Can cause severe irritation, burns and destruction of tissue. May cause permanent damage and blindness.

**Skin:** May cause tissue destruction and severe burns. A latent period may exist between exposure and sense of irritation.

**Inhalation:** Vapors or mist may cause damage to the upper respiratory tract and to the lung tissue.

**Ingestion:** Can cause very serious damage to the mouth, esophagus, stomach and other contacted tissues and may be fatal. Aspiration into the lungs during vomiting may cause chemical pneumonitis and pulmonary edema/hemorrhage.

### 4. FIRST AID MEASURES

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. Hold eyelids open during flushing. Call a physician or poison center immediately.

**Skin:** Flush area with water while removing contaminated clothing. Follow by washing with soap and water. If irritation persists, call a physician or poison center.

**Inhalation:** Remove to fresh air. Apply artificial respiration if needed. If irritation persists, call a physician.

**Ingestion:** DO NOT induce vomiting. Contains potassium hydroxide, glycol ethers and strong alkalis. Give plenty of water. Never give anything by mouth to an unconscious person. Consult a physician or poison center immediately.

### 5. FIRE FIGHTING MEASURES

**Flash Point (TCC):** None

**Explosive Limits:** Lower (LEL): NA Upper (UEL): NA

**Flame Projection (Aerosol):** NA

**Hazardous Products of Combustion:** When heated strongly, as in a fire, this product may produce carbon dioxide, carbon monoxide, and oxides of phosphorus.

**Fire and Explosion Hazards:** In the presence of extreme heat (as in a fire), this product may react with active metals (e.g. aluminum, zinc, etc.) to release flammable hydrogen gas.

**Extinguishing Media:** Carbon dioxide, dry chemical, water fog, foam

**Fire Fighting Instructions:** Wear self-contained breathing apparatus w/full protective clothing. Containers should be cooled with water to prevent vapor pressure build up.

## 6. ACCIDENTAL RELEASE MEASURES

**Small Spills:** Spills up to one gallon may be diluted with plenty of water and flushed to sewage drain. Rinse area thoroughly.

**Large Spills:** Dike spill and collect on suitable absorbent. Place in corrosion resistant containers for disposal. Rinse area thoroughly.

## 7. HANDLING AND STORAGE

Keep containers tightly closed. Store in a cool, dry well-ventilated area. Store away from incompatible materials. Do not let the drums freeze as they may split or rupture. Avoid contact with skin and eyes. Use with adequate ventilation, avoid breathing mists.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:** Safety goggles are recommended.

**Skin:** Chemical resistant gloves are recommended.

**Respiratory:** Normally not required. Wear NIOSH approved respirator to avoid breathing mists.

**Engineering Controls:** Mechanical ventilation recommended when handling in enclosed/tight spaces.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 212°F/100°C    **Specific Gravity:** 1.08 (H<sub>2</sub>O=1)    **Vapor Pressure:** ND    **Melting Point:** ND

**Vapor Density:** ND    **Evaporation Rate:** 1 (H<sub>2</sub>O=1)    **Solubility in Water:** Complete    **pH:** 13-14

**Appearance and Odor:** Yellow liquid with strong amine odor.

## 10. STABILITY AND REACTIVITY

**Hazardous Polymerization:** NA

**Hazardous Decomposition:** When strongly heated, as in a fire, this product may produce carbon dioxide, carbon monoxide, and oxides of phosphorous.

**Chemical Stability:** Stable

**Incompatibility:** Do not mix this product with other cleaning chemicals, especially strong acids and oxidizing agents such as bleach.

## 11. TOXICOLOGICAL INFORMATION

**Carcinogenicity (NTP/IARC/OSHA):** None

**California Proposition 65:** Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

## 12. ECOLOGICAL INFORMATION

ND

## 13. DISPOSAL CONSIDERATIONS

Consult your local, state and federal regulations for proper disposal guidelines. Disposal regulations may be different for each state and/or locality.

## 14. TRANSPORT INFORMATION

**DOT:** Available upon request.

**TDG:** Available upon request.

**UN:** Available upon request.

## 15. REGULATORY INFORMATION

**VOC (Volatile Organic Compounds):** < 19%

**TSCA (Toxic Substances Control Act):** Listed

**SARA Title III Section 302 EHS:** None

**SARA Title III Section 311/312:** ND

**SARA Title III Section 313 Toxic Chemicals:** None

**WHMIS Classification:**

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

## 16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.