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**THE WARNER GRAHAM COMPANY**

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**MATERIAL SAFETY DATA SHEET****IDENTITY (Section 1)**Trade Name: **ETHYL ALCOHOL(DENATURED)**

Date: 08/21/2003

Chemical Name: **PALOX**

INGREDIENTS (Section 2)	CAS #	OSHA	ACGIH
		PEL	TLV
Ethyl Alcohol	64-17-5	1000ppm	1000ppm
Methyl Alcohol	67-56-1	200ppm	200ppm
Methyl Isobutyl Ketone	108-10-1	100 ppm	100 ppm

**HAZARD IDENTIFICATION (Section 3)****HAZARD RATING**

4=EXTREME

3=HIGH

2=MODERATE

1=SLIGHT

0=INSIGNIFICANT

Health	2
Flammability	3
Reactivity	0
Other	0

**FIRST AID (Section 4)**

- Eyes:** Rinse eyes with plenty of cool water. Seek medical advice immediately.
- Skin:** Immediately flush affected area with plenty of water while removing contaminated clothing. Wash contaminated clothing before reuse.
- Ingestion:** Drink plenty of water. Consult a physician.
- Inhalation:** Immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

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**FIRE FIGHTING DATA (Section 5)**

Flash Point: 60°F

Method Used: Closed Cup

Flammable Limits: Lower: 3.3 % Upper: 19%

Extinguishing Media:

Water Fog: Y Foam: Y Alcohol Foam: N Dry Chemicals: Y CO2: Y

Unusual Fire and Explosion Hazards:

None known

**FIRE FIGHTING EQUIPMENT:**

Firefighters should wear full fire fighting turn out gear (full Bunker Gear). They should use self-contained breathing apparatus operating in the positive pressure mode and equipped with full eye protection and a full face piece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

Extreme caution must be exercised in fighting alcohol fires.

**ACCIDENTAL RELEASE MEASURES (Section 6)**

**ENVIRONMENTAL PRECAUTIONS:** Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

**ACCIDENTAL RELEASE PROCEDURES:** Wear appropriate respiratory protection and protective clothing as described in Section 8 of this MSDS. Turn off or remove all ignition sources. See Section 5 for further information on handling fire and explosion hazards. Contain spilled material. Transfer to secure containers. Where necessary, collect using absorbent media. In the event of an uncontrolled release of this material, the user should determine if the release is reportable under applicable laws and regulations.

**HANDLING PRECAUTIONS (Section 7)****Special Precautions:****STORAGE:**

Store in flammable liquids storage area. Keep container tightly closed. Store in a cool, dry, well-ventilated area. Store away from heat, ignition sources, and open flame in accordance with applicable regulations.

**HANDLING:**

Keep away from heat, sparks and flame. Use only with adequate ventilation. Ground and bond containers when transferring materials. Do not cut, puncture, or weld on or near this container. After this container has been emptied, it may contain flammable vapors; observe all warnings and precautions listed for this product. Do not get in eyes. Wash thoroughly after handling. Avoid prolonged or repeated contact with skin.

**EXPOSURE CONTROL and PERSONAL PROTECTION (Section 8)**

Ventilation: Good general ventilation is sufficient.  
Respiratory protection: Use a protective mask.  
Skin Protection: Wear rubber gloves.  
Eye Protection: Wear safety goggles.

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**PHYSICAL DATA (Section 9)**

<i>Boiling Pt.</i>	78.4 °c 9(173 ° f)	<i>Specific Gravity:</i>	@ 0.813 @60deg F
<i>Vapor Dens. (AIR=1)</i>	1.59	<i>Vapor Pressure:</i>	44.6mm Hg@68deg F* (20deg C)
<i>Solubility in Water</i>	Complete		

\*for Pure Ethyl Alcohol

**STABILITY and REACTIVITY DATA (Section 10)**

**Stability (Conditions to Avoid) :** Stable.

**Incompatibility (Materials to Avoid) :** Contact with acetyl chloride or other oxidizing agents may result in a violent reaction.

**Hazardous Decomposition products:** None expected.

**Hazardous polymerizations:** Not likely.

**TOXICOLOGICAL INFORMATION (Section 11)**

No data available on this product mixture.

**TOXICOLOGICAL INFORMATION FOR ETHYL ALCOHOL:****Teratogenicity:**

No evidence of teratogenicity (birth defects) was noted following inhalation exposure by pregnant rats of airborne vapor concentrations of up to 16,000 ppm for 7 hours on days 1-9 of gestation. In the same study, pregnant rats exposed 20 20,000 ppm showed severe narcosis; offspring of these rats did not show clear evidence of increased incidence of abnormalities.

**TOXICOLOGICAL INFORMATION :****OSHA TOCICITY LEVELS**

Toxicity Level	LC50 Inhalation Rat (1-hr) (bases or vapors)	LD50 Skin Rabbit (24-hour)	LD50 Oral Rat
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**ECOLOGICAL INFORMATION (Section 12)**

Not available on this product mixture.

**DISPOSAL CONSIDERATIONS (Section 13)**

Ensure compliance with federal, state, and local regulations.

**TRANSPORTATION INFORMATION (Section 14)**

Ethanol, Class3, PG11, Flammable Liquid, Identification Number UN1170

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**REGULATORY INFORMATION (Section 15)****Immediate/Acute, Delayed/Chronic, Fire**

One or more of the components of this product is associated with the health hazard(s) listed above. Since in most cases we have no data on the mixture and this component(s) is present at greater than 0.1 or 1.0 percent, we are conservatively assigning this hazard (s) to our product.

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**ADDITIONAL INFORMATION: (Section 16)**

**FOR INDUSTRIAL USE ONLY. NOT FOR HOUSEHOLD USE. NOT INTENDED OR PERMITTED FOR DRINKING BEVERAGE PURPOSES.**

Ensure compliance with federal, state, and local regulations.

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The information herein is given in good faith, but no warranty, expressed or implied, is made.