# Kardol Quality Products 285 S. West Street Lebanon, Ohio 45036

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## MATERIAL SAFETY DATA SHEET # 505021, 505022, 505024 & 505025 Trade Name: Denatured Alcohol (Ethanol D-2 190)

#### **Section 1: Material Identification**

Chemical Name	CAS#	Weight Percent	Occupational Exposure Limits OSHA PEL ACGIH TLV Other	Vapor PI@ Temp MM Hg
Methanol	67-56-1	15.1-16.9%	200 ppm	O
Distilled Water	7732-18-5		NOÑE	
Ethanol SDA-3A	None		None	
*Ethanol	64-17-5	92%	1000 ppm	
*Methyl Isobutyl Keton	ne 108-10-1	1%	50 ppm	

<sup>\*</sup> Indicates toxic chemical (s) subject to the reporting requirements of section 313 of Title III and 40CRF 372.

#### **Section 2: Physical & Chemical Properties**

Boiling Point: 148-242°F Vapor Density: 1.5 [air = 1] Evaporation: 2.0 [n-BuOAc = 1] Vapor Pressure: 50.4 mm Hg @ 20°C

Specific Gravity: 0.805 gm/cc

Appearance & Odor: Clear liquid with solvent odor

Solubility in Water: 99%

Material V.O.C.: 6.8 lbs/gal 815 g/l

## Section 3: Fire & Explosion Hazard Data

Flash Point: 52° F

Flammability Limits: LEL 1.4 UEL 3.6

Extinguisher Media: Foam, carbon dioxide, dry chemical, water fog

Special Fire Fighting: Full protective equipment including self-contained breathing apparatus is recommended.

Water from fog nozzles may be used to cool containers to prevent pressure buildup and

possible auto ignition when exposed to heat.

Unusual Fire Hazard: Keep containers tightly closed. Isolate from heat, sparks and open flame. Closed containers

may explode if exposed to extreme heat. When heated above the flash point, emits flammable vapor which when mixed with air can burn or become explosive. Vapors may be heavier than air and may travel along the floor before ignition and flash back to the vapor source.

Never use welding or cutting torches on or near containers, even if empty.

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#### Section 4: Reactivity Hazard Data

Stability: Stable, Polymerization will not occur.

Conditions to Avoid: Heat, open flames, static electricity, electrical equipment, pilot lights, sparks and all other

sources of ignition.

Avoid: Strong acids, alkalies, and oxidizers.

Hazardous Decomposition: Thermal decomposition or combustion can produce fumes containing organic acids,

carbon dioxide, carbon monoxide and smoke.

### Section 5: Health Hazard Data

Inhalation Risks and Symptoms of Exposure: May cause nose and throat irritation. Repeated and prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of co-ordination are signs that solvent levels are too high. Individuals with breathing problems must not be exposed to this product.

Skin and Eye Contact Health Risks and Symptoms: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Carcinogenicity: NTP Carcinogen: NO IARC Monographs: NO OSHA Regulated: YES

Medical Conditions Generally Aggravated by Exposure: Individuals with pre-existing eye, liver, kidney, chronic lung or other respiratory disorders should not use this product.

#### **EMERGENCY FIRST AID PROCEDURE:**

Eye Contact: Flush promptly with large amounts of water for 15 minutes, seek medical attention immediately.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing. If redness or irritation

persists, seek medical attention.

Inhalation: Remove victim to a well ventilated area. Use oxygen or artificial respiration as required. Seek medical

attention if breathing difficulty persists.

INGESTION: DO NOT INDUCE VOMITING. Call a physician immediately and have the names of all ingredients

available. Keep victim warm and quiet. Aspiration of material into lungs can cause chemical

pneumonia which can be fatal.

### **Section 6: Control and Protective Measures**

Respiratory Protection: The manufacturer takes no responsibility for determining what protection is necessary in any

specific application. The general information given should be used with discretion. Avoid breathing vapors or spray mist. If workplace exposure limits of product or any component is exceeded, a properly fitted NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. Wear a respirator during application and until all vapors are exhausted. In confined areas, wear a positive pressure supplied air respirator (TC-10c). In all cases, follow respirator manufacturer's directions for respirator use. See your safety equipment supplier for additional important information. Do not allow anyone

without protection into the painting area.

Ventilation: Provide sufficient ventilation to keep contaminates below OSHA requirements.

Protective Gloves: Wear neoprene gloves impervious to organic solvents at all times.

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised. However,

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OSHA regulations also permit the use of other safety eye wear designed to protect against

liquid chemical splash.

Other Protective Clothing: To prevent repeated or prolonged skin contact, wear impervious boots and clothing.

Work/Hygienic Practices: Eye wash and safety showers in the work place are recommended. Always wash hands

after using this product and before eating or smoking.

### Section 7: Precautions for Safe Handling & Use

IN CASE OF SPILL: Remove all sources of ignition (sparks, flame and hot surfaces). Avoid breathing vapors.

Stay upwind and away from spill unless wearing appropriate protective equipment. Ventilate enclosed areas as quickly as possible. Stop and contain discharge if it may be done safely. Use non-sparking tools for cleanup of spill. Remove spill with an inert absorbent and non-sparking material. Dispose of in accordance with local, state and federal regulations.

Do not incinerate material.

WASTE DISPOSAL: DO NOT FLUSH INTO SEWER, WATERSHED OR WATERWAY. Dispose of in

accordance with local, state and federal regulations. Do not incinerate closed or empty

containers.

Other Precautions: Containers should be grounded when pouring. Do not take internally. Wash hands after

use and before eating or smoking. Empty containers may contain hazardous residue and explosive vapors. Keep away from heat, sparks and flame. Do not cut, puncture or weld on or near emptied containers. Follow all hazardous precautions given in this data sheet until the container is thoroughly cleaned or destroyed. Employees should be trained in

safety measures consistent with using this product.

DOT HAZARD INDEX
Shipping Name Health: 2

Denatured Alcohol, 3,

UN# 1987, PGII Flammability: 3 NA: Not Applicable Reactivity: 0

> 24 HOUR EMERGENCY NUMBER 1-800-424-9300

KEEP OUT OF REACH OF CHILDREN!!!!!

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