



M874-0001 INK REMOVER

MATERIAL SAFETY DATA SHEET

RPM Wood Finishes Group
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FOR ALL INTERNATIONAL TRANSPORTATION ACCIDENTS. 1-703-527-3887 (collect)

Health: 1 Flammability: 3 Reactivity 0

PRODUCT NAME: M874-0001 INK REMOVER

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 28/07/06
SUPERCEDES: 25/02/04
MSDS NO. M874-0001

II. COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME | % | CAS # | PEL |
|-----------------------------------|-------|----------|----------------------------|
| propylene glycol monomethyl ether | 31-40 | 107-98-2 | No PEL established |
| Methanol | 21-30 | 67-56-1 | 200 ppm TWA; 260 mg/m3 TWA |
| Diethylene glycol monoethyl ether | 21-30 | 111-90-0 | No PEL established |
| Ethylene Glycol | 1-10 | 107-21-1 | No PEL established |

III. HAZARDS IDENTIFICATION

Routes of Entry: Inhalation., Absorption., Ingestion., Skin contact., Eye contact.
Medical Conditions Aggravated: Eye disease. Skin disease including eczema and sensitization. Digestive tract disease. Respiratory disease including asthma and bronchitis. Kidney disease.

Immediate (Acute) Health Effects

Inhalation: Moderately irritating to respiratory tract. Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Skin Contact: Moderately irritating to the skin. Can cause moderate injury (reddening and swelling). Can cause minor skin irritation, defatting, and dermatitis.

Eye Contact: Can cause moderate irritation. Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Skin Absorption: Contains methanol. Upon prolonged or repeated exposure, may cause deterioration of the optic nerve if large quantities are absorbed through the skin. Repeated absorption of large quantities may lead to blindness. No absorption hazard in normal industrial use.

Ingestion: Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

Target Organ Acute Toxicity:

| | |
|-----------------------------------|---|
| Propylene glycol monomethyl ether | eyes, skin, respiratory system, CNS |
| Methyl alcohol | skin, eyes, CNS, GI tract, respiratory system |
| Ethylene glycol | respiratory system, skin, eyes, CNS |

Long-Term (Chronic) Health Effects:

Carcinogenicity: Material did not cause cancer in long-term animal studies. None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.

Reproductive and Developmental Toxicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Skin Contact: May cause lingering affects but not likely to result in permanent damage if the exposure is eliminated. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis.

Eye Contact: Upon prolonged or repeated contact, can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Skin Absorption: Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.

Target Organ Chronic Toxicity: Eyes. Skin. Digestive Tract. Nervous System. Respiratory Tract. Kidneys. Heart.

Supplemental Health Hazard Information: No additional health information available.

IV. FIRST AID

Inhalation: Remove to fresh air. Get medical attention immediately. Have a trained individual administer humidified oxygen. If not breathing, give artificial respiration.

Eyes: Flush immediately under running water for 15 minutes. If redness or irritation occurs, seek medical attention. Immediately flush eyes with plenty of water for at least 20 minutes. Get immediate medical attention. Hold eyelids apart periodically while flushing. Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with mild soap and water. If irritation occurs get medical attention. If clothing is contaminated, remove and wash before reuse. Wash with soap and water. Get medical attention if irritation develops or persists.

Ingestion: First aid is normally not required. Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this MSDS.

Notes to MD: No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point: 54 (CALC.) °F
Upper Flammable/Explosive Limit, % in air: 15.3 @ 77° F
Lower Flammable/Explosive Limit, % in air: 1.2 @ 77° F

Fire Hazards: Vapors are heavier than air and can travel to a source of ignition and flash back. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death. Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

Extinguishing Media: Water spray Foam Dry chemical Carbon dioxide Alcohol foam Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot burning liquid.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Water spray may be used to cool containers however be careful not to spread the fire with the water used for cooling purposes. Use methods for the surrounding fire. Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

Hazardous Combustion Products: Carbon monoxide Carbon dioxide

VI. ACCIDENTAL RELEASE MEASURES

Health Consideration for Spill Response: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this MSDS

**Spill Mitigation Procedures
General Methods:**

No special spill clean-up considerations. Collect and discard in regular trash.

VII. HANDLING AND STORAGE

- Handling:** Wash thoroughly after handling. Keep in air-tight containers- material is hygroscopic. Do not reuse containers. Avoid breathing vapors from heated material. Mildly irritating material. Avoid unnecessary exposure.
- Storage:** Store this product in air-tight containers. Keep away from heat, sparks, and flame. Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed.

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls: Facilities storing or using this material should be equipped with an eyewash and safety shower. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Protective Equipment

- Respiratory Tract:** Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage should be implemented.
- Eyes:** Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.
- Skin:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

IX. PHYSICAL DATA

- Physical State:** CLEAR LIQUID
Odor: STRONG SOLVENT
Solids Vol %: 0.0000
Solids Wt %: 0.0000
Material VOC lbs/gal: 7.5933
Material VOC gms/l: 911.8934
Coatings VOC lbs/gal: 7.5933
Coatings VOC gms/l: 911.8934
Weight per gallon lbs: 7.6106

VOC data per US EPA guidelines. State and local variations may apply.

X. STABILITY AND REACTIVITY

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|----------------------------------|--|
| Stability Information: | Stable. Stable under normal conditions. |
| Conditions to Avoid: | Avoid: heat, sparks, flame and oxidizing agents. None known. |
| Chemical Incompatibility: | Strong oxidizing agents. |
| Hazardous Polymerization: | Hazardous Polymerization will not occur. |

XI. TOXICOLOGICAL INFORMATION

| Chemical Name | CAS Number | LD50/LC50 |
|------------------------------|------------|---|
| 2-Propanol, 1-methoxy- | 107-98-2 | Inhalation LC50 Rat : 10000 ppm/5H; Oral LD50 Mouse : 11700 mg/kg; Dermal LD50 Rabbit : 13 gm/kg |
| Methanol | 67-56-1 | Inhalation LC50 Rat : 64000 ppm/4H; Oral LD50 Rat : 5628 mg/kg; Oral LD50 Mouse : 7300 mg/kg; Dermal LD50 Rabbit : 15800 mg/kg |
| Ethanol, 2-(2-ethoxyethoxy)- | 111-90-0 | Oral LD50 Rat : 5500 mg/kg; Oral LD50 Mouse : 6600 mg/kg; Dermal LD50 Rabbit : 4200 uL/kg |
| Ethylene glycol | 107-21-1 | Inhalation LC50 Rat : 10876 mg/kg; Oral LD50 Rat : 4700 mg/kg; Oral LD50 Mouse : 5500 mg/kg; Dermal LD50 Rabbit : 9530 uL/kg |

XII. ECOLOGICAL INFORMATION

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| Overview (for ingredients): | No data available. This material is not expected to be harmful to the ecology. |
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XIII. DISPOSAL CONSIDERATIONS

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|---|---|
| Waste Description for Spent Product: | The waste may be a characteristic hazardous waste. Spent or discarded material is not expected to be a hazardous waste. |
| Disposal Methods: | Comply with all Local, State, Federal, and Provincial Environmental Regulations. Dispose of by incineration following Federal, State, Local, or Provincial regulations. |
| Potential EPA Waste Codes: | If discarded, this product is considered a RCRA ignitable waste, D001. |

Components Subject to USEPA Land Disposal Restrictions:

| | | |
|----------|---------|--------|
| Methanol | 67-56-1 | 29.1 % |
|----------|---------|--------|

XIV. TRANSPORTATION INFORMATION

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| DOT | PAINT RELATED MATERIAL, 3, UN 1263, II See 49CFR 172.101 for Special Provisions, Packaging, and Quantity Limitations. |
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XV. REGULATORY INFORMATION

| Chemical Name | Regulation | CASRN | % |
|-----------------------------------|---------------------------|----------|-------|
| Methanol | SARA 313 Reportable: | 67-56-1 | 29.1 |
| Ethylene glycol | SARA 313 Reportable: | 107-21-1 | 9.79 |
| propylene glycol monomethyl ether | New Jersey Right To Know: | 107-98-2 | 34.00 |
| Methanol | New Jersey Right To Know: | 67-56-1 | 29.1 |
| Diethylene glycol monoethyl ether | New Jersey Right To Know: | 111-90-0 | 27.12 |
| Ethylene Glycol | New Jersey Right To Know: | 107-21-1 | 9.79 |

XVI. ADDITIONAL INFORMATION

Other Information:

IMPORTANT: WHILE THE DESCRIPTIONS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU PERFORM AN ASSESSMENT TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED, DATA OR INFORMATION SET FORTH. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, OR DATA PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, THE DESCRIPTIONS, DATA AND INFORMATION FURNISHED HEREUNDER ARE GIVEN GRATIS. NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DATA AND INFORMATION GIVEN ARE ASSUMED. ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

MSDS glossary.