



M870-220 Flat L/V W/B Clear Coat

MATERIAL SAFETY DATA SHEET

RPM Wood Finishes Group
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828-728-8266

EMERGENCY PHONE (CHEM TREC): 1-800-424-9300
FOR ALL INTERNATIONAL TRANSPORTATION ACCIDENTS. 1-703-527-3887 (collect)

Health: 1 Flammability: 1 Reactivity 0

PRODUCT NAME: M870-220 Flat L/V W/B Clear Coat

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 03/01/02
SUPERCEDES: None
MSDS NO. M870-220
OSHA HAZ. CLASS: Eye irritant. Neurotoxin - may cause nervous system damage.
Mucous membrane (respiratory tract) irritant.

II. COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME | % | CAS # | PEL |
|----------------------------|------|----------|---------------------------|
| 1-Methyl-2-pyrrolidinone | 1-10 | 872-50-4 | No PEL established |
| 1-Methoxy-2-hydroxypropane | 1-10 | 107-98-2 | No PEL established |
| Triethylamine | <1 | 121-44-8 | 25 ppm TWA; 100 mg/m3 TWA |
| Formaldehyde | <1 | 50-00-0 | No PEL established |

III. HAZARDS IDENTIFICATION

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

Immediate (Acute) Health Effects

Inhalation: Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

Skin Contact: Substance is corrosive. Causes severe skin burns. Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.

Eye Contact: Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.

Skin Absorption: Substance is harmful if absorbed through the skin. Large exposures may be fatal. Toxic if absorbed through the skin. Likely to cause significant systemic damage.

Ingestion: Harmful if swallowed. 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 |
| Triethylamine | skin, eyes, respiratory system, CVS, liver, kidney |
| Formaldehyde (and formalin) | eyes, skin, respiratory system, nasal cancer |

Long-Term (Chronic) Health Effects:

Carcinogenicity: No data available. Contains a substance that is a probable cancer hazard based on animal studies using doses likely to be encountered in the workplace.

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

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

Supplemental Health Hazard Information: No additional health information available.

IV. FIRST AID

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Skin Contact: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately from other articles before reuse.

Notes to MD: No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

| | |
|---|-------------|
| Flash Point: | 99C; 210F |
| Autoignition Temperature: | 0 deg. C |
| Upper Flammable/Explosive Limit, % in air: | 0.0 @ 77° F |

| | |
|---|--|
| Lower Flammable/Explosive Limit, % in air: | 0.0 @ 77° F |
| Fire Hazards: | Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back. |
| Extinguishing Media: | Use methods suitable to fight surrounding fire. Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire. |
| Fire Fighting Instructions: | Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back. |
| Hazardous Combustion Products: | Carbon monoxide |

VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|--|
| Health Consideration for Spill Response: | No health effects 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: | "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Ground and bond containers when transferring material. Avoid contact with material. Use spark-proof tools and explosion-proof equipment. |
| Storage: | Limit quantity of material stored. Avoid exposure to sunlight or ultraviolet (UV) light sources. Do not store near combustible materials. Keep from freezing. |

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

| | |
|--|--|
| Engineering Controls: | Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. |
| 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: CLOUDY LIQUID
Odor: MILD AMINE
Solids Vol %: 33.4163
Solids Wt %: 36.332
Material VOC lbs/gal: 1.4
Material VOC gms/l: 168.1266
Weight per gallon: 8.6456

X. STABILITY AND REACTIVITY

Stability Information: Stable.
Conditions to Avoid: Avoid: heat, sparks, flame and oxidizing agents.
Chemical Incompatibility: Oxidizing materials. Strong acids. Strong oxidizing agents. Strong alkalis.
Hazardous Polymerization: Hazardous Polymerization will not occur.

XI. TOXICOLOGICAL INFORMATION

| Chemical Name | CAS Number | LD50/LC50 |
|----------------------------|------------|--|
| 2-Pyrrolidinone, 1-methyl- | 872-50-4 | Oral LD50 Rat : 3914 mg/kg; Oral LD50 Mouse : 5130 mg/kg; Dermal LD50 Rabbit : 8 gm/kg |
| 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 |
| Triethylamine | 121-44-8 | Inhalation LC50 Mouse : 6 gm/m ³ ; Oral LD50 Rat : 460 mg/kg; Oral LD50 Mouse : 546 mg/kg; Dermal LD50 Rabbit : 570 uL/kg |
| Formaldehyde | 50-00-0 | Inhalation LC50 Rat : 203 mg/m ³ ; Inhalation LC50 Mouse : 454 gm/m ³ /4H; Oral LD50 Rat : 100 mg/kg; Oral LD50 Mouse : 42 mg/kg; Dermal LD50 Rabbit : 270 uL/kg |

XII. ECOLOGICAL INFORMATION

Overview (for ingredients): No data available.

Ecological Toxicity Values:

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: Spent or discarded material is a hazardous waste.

Disposal Methods: Dispose of in a landfill. Disposal is not likely to be regulated.

Potential EPA Waste Codes: If discarded, this product is considered a RCRA ignitable waste, D001.

Components Subject to USEPA Land Disposal Restrictions:

| | | |
|---------------|----------|--------|
| Triethylamine | 121-44-8 | 0.66 % |
|---------------|----------|--------|

XIV. TRANSPORTATION INFORMATION

DOT NON REGULATED

XV. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA):

| Chemical Name | Regulation | CASRN | % |
|---|--|--------------|----------|
| N-Methyl-2-pyrrolidinone | SARA 313 Reportable: | 872-50-4 | 8.59 |
| Triethylamine | SARA 313 Reportable: | 121-44-8 | 0.66 |
| Formaldehyde | SARA 313 Reportable: | 50-00-0 | 0.00 |
| Formaldehyde | Extremely Haz. Substances: | 50-00-0 | 0.00 |
| TPQ = 500 pounds; RQ = 100 pounds (does not meet toxicity criteria but because of high production volume and recognized toxicity is considered a chemical of concern) | SARA Threshold Planning Quantity: | 50-00-0 | 0.00 |
| Formaldehyde (gas) | California Proposition 65 Cancer List: | 50-00-0 | 0.00 |
| 1-Methyl-2-pyrrolidone | California Proposition 65 Developmental Toxicity: | 872-50-4 | 8.59 |
| Water | New Jersey Right To Know: | 7732-18-5 | 42.72 |
| Urethane Polymer | New Jersey Right To Know: | | 19.81 |
| 1-Methyl-2-pyrrolidinone | New Jersey Right To Know: | 872-50-4 | 8.59 |
| 1-Methoxy-2-hydroxypropane | New Jersey Right To Know: | 107-98-2 | 4.34 |
| Flattening Agent | New Jersey Right To Know: | | 3.7 |

XVI. ADDITIONAL INFORMATION

Other Information:

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MSDS glossary.