M878-1537 BROWN L/V COLOR COAT

MATERIAL SAFETY DATA SHEET

RPM Wood Finishes Group
3194 Hickory Boulevard
Hudson, North Carolina 28638
828-728-8266

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

Health: 2 **Flammability: 1** **Reactivity 0**

PRODUCT NAME: M878-1537 BROWN L/V COLOR COAT

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE:	16/05/03
SUPERCEDES:	None
MSDS NO.	M878-1537

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
PUD nonvolatiles	21-30	proprietary	No PEL established
1-methyl-2-pyrollidone	1-10	872-50-4	No PEL established
iron oxide yellow	1-10	51274-00-1	No PEL established
titanium dioxide	1-10	13463-67-7	total dust: 15 mg/m3 TWA
propylene glycol monomethyl ether	1-10	107-98-2	No PEL established
acrylic non volatiles	1-10	proprietary	No PEL established
fumed silica	1-10	112945-52-5	No PEL established
propylene glycol	1-10	57-55-6	No PEL established
Triethylamine	<1	121-44-8	25 ppm TWA; 100 mg/m3 TWA
carbon black	<1	1333-86-4	3.5 mg/m3 TWA
Quartz	<1	14808-60-7	see Table Z-3
formaldehyde	<1	50-00-0	0.75 ppm TWA

III. HAZARDS IDENTIFICATION

Routes of Entry: Eyes, Skin, Inhalation, Ingestion., Absorption.
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: Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material. Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

Skin Contact: Substance is corrosive. Causes severe skin burns. Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. No hazard in normal industrial use.

Eye Contact: Can cause mechanical irritation if dusts are generated. Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue. Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

Skin Absorption: Substance is harmful if absorbed through the skin. Large exposures may be fatal. Harmful if absorbed through the skin. May cause severe irritation and systemic damage.

Ingestion: Harmful if swallowed. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

Target Organ Acute Toxicity:

Titanium dioxide	respiratory system (in animals: lung tumors)
Propylene glycol monomethyl ether	eyes, skin, respiratory system, CNS
Triethylamine	skin, eyes, respiratory system, CVS, liver, kidney
Carbon black	respiratory system, eyes, lymphatic cancer
Silica, crystalline	respiratory system, eyes (in animals: lung cancer)
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.

Reproductive and Developmental Toxicity: Contains a substance(s) that is a possible reproductive system hazard based on high dose tests with laboratory animals.

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 severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

Skin Contact: Prolonged or repeated contact may cause irritation. Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Eye Contact: Upon prolonged or repeated contact, dust contact can cause mechanical irritation. Upon prolonged or repeated 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: Upon prolonged or repeated exposure, toxic if absorbed through the skin. Likely to cause systemic damage.

Target Organ Chronic Toxicity: 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 breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
Eyes:	Immediately 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 and monitor the eye daily as advised by your physician.
Skin Contact:	Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately from other articles before reuse. Wash with soap and water. Get medical attention if irritation develops or persists. Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Wash with soap and water.
Ingestion:	Get medical attention. Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS.
Notes to MD:	No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point:	>200 (CALC.) ^{o}F
Fire Hazards:	Material will not burn. 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:	Use methods for the surrounding fire.Do not enter fire area without proper protection including self-contained toxic 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. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.
Hazardous Combustion Products:	Carbon monoxide

VI. ACCIDENTAL RELEASE MEASURES

Health Consideration for Spill Response:	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Spill Mitigation Procedures General Methods:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

VII. HANDLING AND STORAGE

Handling:	Minimize dust generation and accumulation. Wash thoroughly after handling. Avoid contact with material. Keep in air-tight containers- material is hygroscopic. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Use spark-proof tools and explosion-proof equipment. Harmful or irritating material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.
Storage:	Do not store near combustible materials. Keep away from sources of ignition. Keep container closed when not in use. Store in a cool dry place. Isolate from incompatible materials.

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls:	Local exhaust. Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

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:	COLORED LIQUID
Odor:	MILD AMINE
Solids Vol %:	29.8141
Solids Wt %:	38.894
Material VOC lbs/gal:	1.4268
Material VOC gms/l:	171.347
Coatings VOC lbs/gal:	3.0141
Coatings VOC gms/l:	361.9639

Weight per gallon: 9.5217

X. STABILITY AND REACTIVITY

Stability Information: Stable. Stable under normal conditions.

Conditions to Avoid: Avoid: heat, sparks, flame and oxidizing agents. High temperatures. None known.

Chemical Incompatibility: Metals. Acids. Strong reducing agents. Strong acids. Strong oxidizing agents. Strong alkalies.

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
Silica, amorphous fumed	112945-52-5	Oral LD50 Rat : 3160 mg/kg
1,2-Propanediol	57-55-6	Oral LD50 Rat : 20 gm/kg; Oral LD50 Mouse : 22 gm/kg; Dermal LD50 Rabbit : 20800 mg/kg
Triethylamine	121-44-8	Inhalation LC50 Mouse : 6 gm/m3; Oral LD50 Rat : 460 mg/kg; Oral LD50 Mouse : 546 mg/kg; Dermal LD50 Rabbit : 570 uL/kg
Carbon black	1333-86-4	Oral LD50 Rat : >15400 mg/kg; Dermal LD50 Rabbit : >3 gm/kg
Formaldehyde	50-00-0	Inhalation LC50 Rat : 203 mg/m3; Inhalation LC50 Mouse : 454 gm/m3/4H; 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. This material is not expected to be harmful to the ecology.

XIII. DISPOSAL CONSIDERATIONS

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

Disposal Methods: Perform waste water treatment. Dispose of in a landfill. Disposal is not likely to be regulated.

Potential EPA Waste Codes: D001

Components Subject to USEPA Land Disposal Restrictions:

Triethylamine	121-44-8	0.87 %

XIV. TRANSPORTATION INFORMATION

DOT NON REGULATED

XV. REGULATORY INFORMATION

Chemical Name	Regulation	CASRN	%
N-Methyl-2-pyrrolidinone	SARA 313 Reportable:	872-50-4	8.28
Triethylamine	SARA 313 Reportable:	121-44-8	0.87
Formaldehyde	SARA 313 Reportable:	50-00-0	0.00
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
Carbon Black	California Proposition 65 Cancer List:	1333-86-4	0.19
Formaldehyde (gas)	California Proposition 65 Cancer List:	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	8.28
PUD nonvolatiles	New Jersey Right To Know:	proprietary	20.19
1-methyl-2-pyrollidone	New Jersey Right To Know:	872-50-4	8.28
iron oxide yellow	New Jersey Right To Know:	51274-00-1	5.8
titanium dioxide	New Jersey Right To Know:	13463-67-7	4.88
propylene glycol monomethyl ether	New Jersey Right To Know:	107-98-2	3.58

XVI. ADDITIONAL INFORMATION

Other Information:

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MSDS glossary.