



B101-0829 Medium Mahogany Tone Finish  
 FR101-0227  
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 101-0227

# MATERIAL SAFETY DATA SHEET

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

**PRODUCT NAME: B101-0829 Medium Mahogany Tone Finish**

## I. PRODUCT AND COMPANY IDENTIFICATION

**Revision Number:** 2  
**Revision Date:** 2003-09-08 15:54:35  
**Intended Use:**

## II. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #	LD50/LC50
acetone	21-30	67-64-1	Inhalation LC50 Rat : 50100 mg/m3/8H; Inhalation LC50 Mouse : 44 gm/m3/4H; Oral LD50 Rat : 5800 mg/kg; Oral LD50 Mouse : 3 gm/kg
propane	11-20	74-98-6	No data available
n-butyl acetate	11-20	123-86-4	Inhalation LC50 Rat : 2000 ppm/4H; Inhalation LC50 Mouse : 6 gm/m3/2H; Oral LD50 Rat : 10768 mg/kg; Oral LD50 Mouse : 6 gm/kg; Dermal LD50 Rabbit : >17600 mg/kg
ethyl acetate	1-10	141-78-6	Inhalation LC50 Rat : 200 gm/m3; Inhalation LC50 Mouse : 45 gm/m3/2H; Oral LD50 Rat : 5620 mg/kg; Oral LD50 Mouse : 4100 mg/kg; Dermal LD50 Rabbit : >20 mL/kg
isobutane	1-10	75-28-5	Inhalation LC50 Rat : 57 pph/15M
toluene	1-10	108-88-3	Inhalation LC50 Rat : 49 gm/m3/4H; Inhalation LC50 Mouse : 400 ppm/24H; Oral LD50 Rat : 636 mg/kg; Dermal LD50 Rabbit : 14100 uL/kg
isopropanol	1-10	67-63-0	Inhalation LC50 Rat : 16000 ppm/8H; Oral LD50 Rat : 5045 mg/kg; Oral LD50 Mouse : 3600 mg/kg; Dermal LD50 Rabbit : 12800 mg/kg
rosin ester	1-10	8050-31-5	No data available
isobutyl isobutyrate	1-10	97-85-8	Inhalation LC50 Rat : 5000 ppm/6H; Oral LD50 Rat : 12800 mg/kg; Dermal LD50 Rabbit : >8600 mg/kg
Cellulose Nitrate, Cellulose Ester	1-10	9004-70-0	Oral LD50 Rat : >5 gm/kg; Oral LD50 Mouse : >5 gm/kg

m-xylene	<1	108-38-3	Oral LD50 Rat : 5 gm/kg; Dermal LD50 Rabbit : 14100 uL/kg
o-xylene	<1	95-47-6	No data available
ethylbenzene	<1	100-41-4	Oral LD50 Rat : 3500 mg/kg; Dermal LD50 Rabbit : 17800 uL/kg
p-xylene	<1	106-42-3	Inhalation LC50 Rat : 4550 ppm/4H; Oral LD50 Rat : 5 gm/kg
Quartz	<1	14808-60-7	No data available
carbon black	<1	1333-86-4	Oral LD50 Rat : >15400 mg/kg; Dermal LD50 Rabbit : >3 gm/kg
xylene, mixed isomers	<1	1330-20-7	Inhalation LC50 Rat : 5000 ppm/4H; Oral LD50 Rat : 4300 mg/kg; Dermal LD50 Rabbit : >1700 mg/kg

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

**Control Parameters:**

Chemical Name	ACGIH TLV-TWA	ACGIH STEL	IDLH
acetone	500 ppm TWA	750 ppm STEL	2500 ppm IDLH (lower explosive level) ND
propane	2500 ppm TWA		2100 ppm IDLH (10 percent lower explosive limit)
n-butyl acetate	150 ppm TWA	200 ppm STEL	1700 ppm IDLH (10 percent lower explosive limit)
ethyl acetate	400 ppm TWA		2000 ppm IDLH (10 percent lower explosive limit)
isobutane	No TLV		ND
toluene	50 ppm TWA		500 ppm IDLH
isopropanol	(400) ppm TWA	(500) ppm STEL; (1230) mg/m3 STEL	2000 ppm IDLH (10 percent lower explosive limit)
rosin ester	No TLV		ND
isobutyl isobutyrate	No TLV		ND
Cellulose Nitrate, Cellulose Ester	No TLV		ND
m-xylene	100 ppm TWA	150 ppm STEL; 651 mg/m3 STEL	900 ppm IDLH
o-xylene	100 ppm TWA	150 ppm STEL; 651 mg/m3 STEL	900 ppm IDLH
ethylbenzene	100 ppm TWA; 434 mg/m3 TWA	125 ppm STEL; 543 mg/m3 STEL	800 ppm IDLH (10 percent lower explosive limit)
p-xylene	100 ppm TWA	150 ppm STEL; 651 mg/m3 STEL	900 ppm IDLH
Quartz	0.1 mg/m3 TWA (this TLV is for the respirable fraction of dust)		Potential NIOSH carcinogen.[25 mg/m <sup>3</sup> (cristobalite, tridymite); 50 mg/m <sup>3</sup> (quartz, tripoli)]
carbon black	3.5 mg/m3 TWA		1750 mg/m3 IDLH
xylene, mixed isomers	100 ppm TWA	150 ppm STEL; 651 mg/m3 STEL	900 ppm IDLH

**Component Toxicology Data (NIOSH):**

Chemical Name	CAS Number	LD50/LC50
Acetone	67-64-1	Inhalation LC50 Rat : 50100 mg/m3/8H; Inhalation LC50 Mouse : 44 gm/m3/4H; Oral LD50 Rat : 5800 mg/kg; Oral LD50 Mouse : 3 gm/kg
Acetic acid, butyl ester	123-86-4	Inhalation LC50 Rat : 2000 ppm/4H; Inhalation LC50 Mouse : 6 gm/m3/2H; Oral LD50 Rat : 10768 mg/kg; Oral LD50 Mouse : 6 gm/kg; Dermal LD50 Rabbit : >17600 mg/kg
Acetic acid, ethyl ester	141-78-6	Inhalation LC50 Rat : 200 gm/m3; Inhalation LC50 Mouse : 45 gm/m3/2H; Oral LD50 Rat : 5620 mg/kg; Oral LD50 Mouse : 4100 mg/kg; Dermal LD50 Rabbit : >20 mL/kg
Propane, 2-methyl-	75-28-5	Inhalation LC50 Rat : 57 ppH/15M

Toluene	108-88-3	Inhalation LC50 Rat : 49 gm/m3/4H; Inhalation LC50 Mouse : 400 ppm/24H; Oral LD50 Rat : 636 mg/kg; Dermal LD50 Rabbit : 14100 uL/kg
Isopropyl alcohol	67-63-0	Inhalation LC50 Rat : 16000 ppm/8H; Oral LD50 Rat : 5045 mg/kg; Oral LD50 Mouse : 3600 mg/kg; Dermal LD50 Rabbit : 12800 mg/kg
Isobutyric acid, isobutyl ester	97-85-8	Inhalation LC50 Rat : 5000 ppm/6H; Oral LD50 Rat : 12800 mg/kg; Dermal LD50 Rabbit : >8600 mg/kg
Nitrocellulose	9004-70-0	Oral LD50 Rat : >5 gm/kg; Oral LD50 Mouse : >5 gm/kg
m-Xylene	108-38-3	Oral LD50 Rat : 5 gm/kg; Dermal LD50 Rabbit : 14100 uL/kg
Benzene, ethyl-	100-41-4	Oral LD50 Rat : 3500 mg/kg; Dermal LD50 Rabbit : 17800 uL/kg
p-Xylene	106-42-3	Inhalation LC50 Rat : 4550 ppm/4H; Oral LD50 Rat : 5 gm/kg
Carbon black	1333-86-4	Oral LD50 Rat : >15400 mg/kg; Dermal LD50 Rabbit : >3 gm/kg
Xylene	1330-20-7	Inhalation LC50 Rat : 5000 ppm/4H; Oral LD50 Rat : 4300 mg/kg; Dermal LD50 Rabbit : >1700 mg/kg

### III. Physical Data

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<b>Physical State:</b>	COLORED LIQUID
<b>Odor:</b>	STRONG SOLVENT
<b>pH:</b>	
<b>Solubility in Water:</b>	
<b>Octanol/Water Partition Coefficient:</b>	
<b>Vapor Pressure (mmHg):</b>	
<b>Vapor Density:</b>	
<b>Evaporation Rate:</b>	
<b>Volatiles, % by weight:</b>	
<b>Boiling Point:</b>	-42.00 deg. C

### IV. Fire and Explosion Data

#### Flammability Summary:

#### Extinguishing Media:

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. Use alcohol resistant spray, Carbon Dioxide, water spray or dry chemical to extinguish a fire involving this chemical. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. H2O, CO2, dry chemical, foam. Carbon dioxide Alcohol foam

#### Fire and/or Explosion 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. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point.

#### Fire Fighting Methods and Protection:

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. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

#### Hazardous Combustion Products:

Carbon dioxide, Carbon monoxide, Toxic gases, Hydrogen cyanide, Nitrogen containing gases

<b>Flash Point:</b>	<b>-104 deg. C</b>
<b>Autoignition Temperature:</b>	450 deg. C
<b>Decomposition Temperature:</b>	
<b>Upper Flammable/Explosive Limit, % in air:</b>	12.8

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**Lower Flammable/Explosive Limit, % in air:** 1.4

## **V. STABILITY AND REACTIVITY**

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**Stability:** Normally stable. Keep away from heat, sparks and flame.  
Stable.

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

**Materials to Avoid/Chemical Incompatibility:** Strong oxidizing agents. Strong acids. Strong alkalis. Amines.  
Metals.

**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide. Carbon dioxide, Carbon  
monoxide Toxic fumes. Toxic gases Hydrogen cyanide  
Nitrogen containing gases

## **VI. TOXICOLOGICAL INFORMATION**

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**Routes of Entry:** Inhalation, ingestion, skin, eyes.

**Target Organs Potentially Affected by Exposure:** Respiratory Tract., Skin., Respiratory Tract., Nervous  
System., Eyes., Skin., Eyes., Nervous System., Kidneys.,  
Liver., Digestive Tract., Blood.

### **Chemical Interactions That Change Toxicity:**

**Medical Conditions Aggravated:** Skin disease including eczema and sensitization., Respiratory disease  
including asthma and bronchitis., Eye disease., Kidney disease., Liver  
disease., Digestive tract disease.

### **Immediate (Acute) Health Effects by Route of Exposure:**

**Inhalation Irritation:** Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache  
and possible unconsciousness. Irritation may be delayed for several hours.

**Inhalation Toxicity:** Highly toxic! Can cause systemic damage (see "Target Organs" ). Respiratory failure is  
possible at high doses. Inhalation of high concentrations may result in central nervous  
system (CNS) effects such as dizziness, weakness, fatigue, nausea, headache, and lack of  
coordination.

**Skin Contact:** Can cause minor skin irritation, defatting, and dermatitis. Substance causes moderate  
skin irritation. Moderately irritating to the skin.

**Skin Absorption:** Minimal hazard in normal industrial use. May cause gastrointestinal discomfort. Can be  
absorbed through the skin but exposure must be extensive before adverse health effects  
occur. Toxic and may be harmful if absorbed through the skin; may produce target organ  
damage.

**Eye Contact:** 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. Can cause  
mechanical irritation if dusts are generated.

**Ingestion Irritation:** Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea,  
vomiting and diarrhea. Aspiration of material into the lungs can cause chemical  
pneumonitis which can be fatal.

**Ingestion Toxicity:** Harmful if swallowed. May cause systemic poisoning. Substance is harmful if  
swallowed. Large exposure may be fatal.

### **Long-Term (Chronic) Health Effects:**

**Carcinogenicity:** Contains a substance that is a probable cancer hazard based on human studies. ACGIH.  
IARC. NIOSH. NTP. OSHA.

**Reproductive and Developmental Toxicity:** Possible reproductive hazard. A component in this product has  
been shown to cause birth defects and reproductive disorders in  
laboratory animals at doses that could 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.

- Inhalation:** Upon prolonged and/or repeated exposure, can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. Highly toxic! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs").
- Skin Contact:** Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
- Skin Absorption:** Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.

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## VII. FIRST-AID MEASURES

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- 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. Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
- Skin Contact:** Wash with soap and water under a drench shower. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately. Wash with soap and water. Get medical attention if irritation develops or persists.
- Ingestion:** No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.
- Notes to Doctor:** No additional first aid information available.

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## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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- Engineering Measures:** Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Ventilation should effectively remove and prevent buildup of any vapor/mist/fume generated from the handling of this product. Explosion proof exhaust ventilation should be used.
- Respiratory Protection:** 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.
- Eye Protection:** 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 Protection:** 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.

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## IX. HANDLING AND STORAGE

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- Handling Technical Measures and Precautions:** Mildly irritating material. Avoid unnecessary exposure. Use spark-proof tools and explosion-proof equipment. Wash thoroughly after handling. Avoid contact with material. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation.

**Storage Technical Measures and Conditions:** Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from heat, sparks, and flame. Keep away from sources of ignition. Keep container closed when not in use. Store in a cool place in original container and protect from sunlight.

**Special Shipping Information:** Canadian Dangerous Goods Tariff applies.

#### **X. ACCIDENTAL RELEASE MEASURES**

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**Personal Precautions and Equipment:** 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

**Methods for Clean-up:** No special spill clean-up considerations. Collect and discard in regular trash.

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**WHMIS Classification:** B2; D2B  
B2; D1B; D2B  
B4; D2B; F  
D2B  
B2; D2A  
B2; D2B; D2A  
C; D2B  
B3; D2B  
D2A

**WHMIS Health Rating:** 1

2

**WHMIS Flammability Rating:** 3

<b>Test</b>	Acetone	1% item 10 (41)
	n-Butyl acetate	1% item 230 (9)
	Ethylacetate	1% item 689 (17)
	Toluene (Toluol)	1% item 1578 (1622)
	Isopropanol	1% item 904 (1050)
	m-Xylene	1% item 1694 (1722)
	o-Xylene	1% item 1695 (1723)
	Ethyl benzene	0.1% item 697 (854)
	p-Xylene	0.1% item 1696 (1724)
	Silica-crystalline, quartz	1% item 1406 (1491)
	Carbon black	1% item 309 (1271)