



B545-0824 Birch Stain

# MATERIAL SAFETY DATA SHEET

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

Health: 1                      Flammability: 2                      Reactivity 0

PRODUCT NAME: B545-0824 Birch Stain

## I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 19/09/03  
SUPERCEDES: 22/07/02  
MSDS NO. B545-0824

## II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
aromatic hydrocarbons	41-50	64742-95-6	No PEL established
trimethylbenzene	21-30	25551-13-7	No PEL established
titanium dioxide	11-20	13463-67-7	total dust: 15 mg/m3 TWA
aromatic hydrocarbons	11-20	64742-94-5	No PEL established
m-xylene	1-10	108-38-3	No PEL established
naphthalene	1-10	91-20-3	10 ppm TWA; 50 mg/m3 TWA
ethylbenzene	1-10	100-41-4	100 ppm TWA; 435 mg/m3 TWA
o-xylene	1-10	95-47-6	No PEL established
rosin ester	1-10	8050-31-5	No PEL established
cumene	<1	98-82-8	50 ppm TWA; 245 mg/m3 TWA
p-xylene	<1	106-42-3	No PEL established
1,2,4-trimethylbenzene	<1	95-63-6	No PEL established
toluene	<1	108-88-3	200 ppm TWA; C 300 ppm
Quartz	<1	14808-60-7	see Table Z-3

## III. HAZARDS IDENTIFICATION

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

## **Immediate (Acute) Health Effects**

<b>Inhalation:</b>	Can cause severe central nervous system depression (including unconsciousness). Causes respiratory tract irritation. High concentrations in immediate area can displace oxygen and can cause dizziness, unconsciousness, and even death with longer exposure. 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.
<b>Skin Contact:</b>	Moderately irritating to the skin. Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
<b>Eye Contact:</b>	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.
<b>Skin Absorption:</b>	Toxic and may be harmful if absorbed through the skin; may produce target organ damage. Can be absorbed through the skin but exposure must be extensive before adverse health effects occur. Minimal hazard in normal industrial use. May cause gastrointestinal discomfort.
<b>Ingestion:</b>	Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. 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)
m-Xylene	CNS, eyes, blood, liver, kidneys, skin, GI tract, respiratory system
Naphthalene	eyes, blood, liver, kidneys, skin, CNS
Ethyl benzene	eyes, respiratory system, skin, CNS
o-Xylene	CNS, eyes, blood, liver, kidneys, skin, GI tract, respiratory system
Cumene	eyes, respiratory system, skin, CNS
p-Xylene	CNS, eyes, blood, liver, kidneys, skin, GI tract, respiratory system
1,2,4-Trimethylbenzene	eyes, skin, respiratory system, CNS, blood
Toluene	CNS, liver, kidneys, skin, eyes, respiratory system
Silica, crystalline	respiratory system, eyes (in animals: lung cancer)

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

<b>Carcinogenicity:</b>	ACGIH. IARC. NIOSH. NTP. OSHA. Contains a substance that is a probable cancer hazard based on human studies.
<b>Reproductive and Developmental Toxicity:</b>	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. Possible reproductive hazard.
<b>Mutagenicity:</b>	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
<b>Inhalation:</b>	Upon prolonged and/or repeated exposure, can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

<b>Skin Contact:</b>	May cause lingering affects but not likely to result in permanent damage if the exposure is eliminated. 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.
<b>Eye Contact:</b>	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.
<b>Skin Absorption:</b>	Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.
<b>Target Organ Chronic Toxicity:</b>	Skin. Respiratory Tract. Eyes. Nervous System. Digestive Tract. Liver. Kidneys. Blood.
<b>Supplemental Health Hazard Information:</b>	No additional health information available.

#### **IV. FIRST AID**

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<b>Inhalation:</b>	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.
<b>Eyes:</b>	Immediately flush eyes with plenty of water. Get medical attention, if irritation persists. 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.
<b>Skin Contact:</b>	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
<b>Ingestion:</b>	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. Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this MSDS.
<b>Notes to MD:</b>	No additional first aid information available.

#### **V. FIRE FIGHTING MEASURES**

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##### **Flammability Summary:**

<b>Fire Hazards:</b>	Use process enclosures to control the level of dust in the air. Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.
<b>Extinguishing Media:</b>	Dry chemical Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can 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 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:** 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:** As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Avoid contact with material. Minimize dust generation and accumulation. Use spark-proof tools and explosion-proof equipment. Mildly irritating material. Avoid unnecessary exposure.

**Storage:** Keep container closed when not in use. Keep away from sources of ignition. Store in a cool dry place. Isolate from incompatible materials.

## **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. Facilities storing or using this material should be equipped with an eyewash and safety shower. 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

<b>Physical State:</b>	COLORED LIQUID
<b>Odor:</b>	OILY HYDROCARBON
<b>Solids Vol %:</b>	7.9663
<b>Solids Wt %:</b>	19.0000
<b>Material VOC lbs/gal:</b>	6.686
<b>Material VOC gms/l:</b>	802.9333
<b>Coatings VOC lbs/gal:</b>	6.686
<b>Coatings VOC gms/l:</b>	802.9333
<b>Weight per gallon:</b>	8.2589

## X. STABILITY AND REACTIVITY

<b>Stability Information:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Avoid: heat, sparks, flame and oxidizing agents. None known.
<b>Chemical Incompatibility:</b>	Strong oxidizing agents. Chlorine. Metals. Strong acids. Acids.
<b>Hazardous Polymerization:</b>	Hazardous Polymerization will not occur.

## XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
Benzene, trimethyl- (mixed isomers)	25551-13-7	Oral LD50 Rat : 8970 mg/kg
m-Xylene	108-38-3	Oral LD50 Rat : 5 gm/kg; Dermal LD50 Rabbit : 14100 uL/kg
Naphthalene	91-20-3	Inhalation LC50 Rat : >340 mg/m <sup>3</sup> /1H; Oral LD50 Rat : 490 mg/kg; Oral LD50 Mouse : 533 mg/kg; Dermal LD50 Rabbit : >20 gm/kg
Benzene, ethyl-	100-41-4	Oral LD50 Rat : 3500 mg/kg; Dermal LD50 Rabbit : 17800 uL/kg
Cumene	98-82-8	Inhalation LC50 Mouse : 10 gm/m <sup>3</sup> /7H; Oral LD50 Rat : 1400 mg/kg; Oral LD50 Mouse : 12750 mg/kg; Dermal LD50 Rabbit : 12300 uL/kg
p-Xylene	106-42-3	Inhalation LC50 Rat : 4550 ppm/4H; Oral LD50 Rat : 5 gm/kg
Benzene, 1,2,4-trimethyl-	95-63-6	Inhalation LC50 Rat : 18 gm/m <sup>3</sup> /4H; Oral LD50 Rat : 5 gm/kg
Toluene	108-88-3	Inhalation LC50 Rat : 49 gm/m <sup>3</sup> /4H; Inhalation LC50 Mouse : 400 ppm/24H; Oral LD50 Rat : 636 mg/kg; Dermal LD50 Rabbit : 14100 uL/kg

## XII. ECOLOGICAL INFORMATION

<b>Overview (for ingredients):</b>	No data available. No ecological information available.
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## XIII. DISPOSAL CONSIDERATIONS

<b>Waste Description for Spent Product:</b>	Spent or discarded material is a hazardous waste.
<b>Disposal Methods:</b>	Comply with all Local, State, Federal, and Provincial Environmental Regulations. Dispose of by incineration following Federal, State, Local, or Provincial regulations.
<b>Potential EPA Waste Codes:</b>	If discarded, this product is considered a RCRA ignitable waste, D001.

### Components Subject to USEPA Land Disposal Restrictions:

Naphthalene	91-20-3	1.14 %
Ethyl benzene	100-41-4	1.13 %
Toluene	108-88-3	0.23 %

## XIV. TRANSPORTATION INFORMATION

**DOT** Paint Combustible Liquid UN1263 PGIII

## **XV. REGULATORY INFORMATION**

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<b>Chemical Name</b>	<b>Regulation</b>	<b>CASRN</b>	<b>%</b>
m-Xylene	SARA 313 Reportable:	108-38-3	2.63
Naphthalene	SARA 313 Reportable:	91-20-3	1.14
Ethyl benzene	SARA 313 Reportable:	100-41-4	1.13
o-Xylene	SARA 313 Reportable:	95-47-6	1.06
Cumene	SARA 313 Reportable:	98-82-8	0.98
p-Xylene	SARA 313 Reportable:	106-42-3	0.64
1,2,4-Trimethylbenzene	SARA 313 Reportable:	95-63-6	0.29
Toluene	SARA 313 Reportable:	108-88-3	0.23
Aluminum oxide	SARA 313 Reportable:	1344-28-1	0.01
Toluene	California Proposition 65	108-88-3	0.23
	Developmental Toxicity:		
aromatic hydrocarbons	New Jersey Right To Know:	64742-95-6	41.38
trimethylbenzene	New Jersey Right To Know:	25551-13-7	20.92
titanium dioxide	New Jersey Right To Know:	13463-67-7	11.15
aromatic hydrocarbons	New Jersey Right To Know:	64742-94-5	10.2
m-xylene	New Jersey Right To Know:	108-38-3	2.63

## **XVI. ADDITIONAL INFORMATION**

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**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.