



M545-234 HC MEDIUM DARK WALNUT W/S

MATERIAL SAFETY DATA SHEET

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Health: 2 Flammability: 2 Reactivity 0

PRODUCT NAME: M545-234 HC MEDIUM DARK WALNUT W/S

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 27/12/05
SUPERCEDES: 09/09/05
MSDS NO. M545-234

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
aromatic hydrocarbons	41-50	64742-95-6	No PEL established
1,2,4-trimethylbenzene	21-30	95-63-6	No PEL established
aromatic hydrocarbons	11-20	64742-94-5	No PEL established
1,3,5-trimethylbenzene	1-10	108-67-8	No PEL established
iron oxide red	1-10	1332-37-2	No PEL established
alkyd resin solids	1-10	PROPRIETARY	No PEL established
aliphatic petroleum distillates	1-10	64742-47-8	No PEL established
diethylbenzene	1-10	25340-17-4	No PEL established
naphthalene	1-10	91-20-3	10 ppm TWA; 50 mg/m3 TWA
manganese oxide	1-10	1313-13-9	ACGIH TLV: 5mg/M3 TWA (Manganese Dust & Compounds)
cumene	1-10	98-82-8	50 ppm TWA; 245 mg/m3 TWA
m-xylene	<1	108-38-3	No PEL established
ethylbenzene	<1	100-41-4	100 ppm TWA; 435 mg/m3 TWA
Quartz	<1	14808-60-7	see Table Z-3
o-xylene	<1	95-47-6	No PEL established
p-xylene	<1	106-42-3	No PEL established
Pigment Yellow 74	<1	6358-31-2	No PEL established
carbon black	<1	1333-86-4	3.5 mg/m3 TWA

III. HAZARDS IDENTIFICATION

Routes of Entry: Skin contact., Eye contact., Absorption., inhalation, ingestion.
Medical Conditions Aggravated: Persons with reduced pulmonary function may experience breathing difficulty. Pre-existing skin or respiratory conditions. Kidney disease. Eye disease. Liver disease. Skin disease including eczema and sensitization. Digestive tract disease.

Immediate (Acute) Health Effects

- Inhalation:** Causes respiratory tract irritation. 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:** Continued or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Moderately irritating to the skin. Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. Can cause severe irritation, defatting, and dermatitis. Irritation effects may last for hours or days but will not likely result in permanent damage. No hazard in normal industrial use.
- Eye Contact:** Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
- Skin Absorption:** Toxic and may be harmful if absorbed through the skin; may produce target organ damage. Minimal hazard in normal industrial use. May cause gastrointestinal discomfort.
- Ingestion:** Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Harmful if swallowed. Severely irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

Target Organ Acute Toxicity:

1,2,4-Trimethylbenzene	eyes, skin, respiratory system, CNS, blood
1,3,5-Trimethylbenzene	eyes, skin, respiratory system, CNS, blood
Naphthalene	eyes, blood, liver, kidneys, skin, CNS
Cumene	eyes, respiratory system, skin, CNS
m-Xylene	CNS, eyes, blood, liver, kidneys, skin, GI tract, respiratory system
Ethyl benzene	eyes, respiratory system, skin, CNS
Silica, crystalline	respiratory system, eyes (in animals: lung cancer)
o-Xylene	CNS, eyes, blood, liver, kidneys, skin, GI tract, respiratory system
p-Xylene	CNS, eyes, blood, liver, kidneys, skin, GI tract, respiratory system
Carbon black	respiratory system, eyes, lymphatic cancer

Long-Term (Chronic) Health Effects:

- Carcinogenicity:** ACGIH. IARC. NIOSH. NTP. OSHA. Contains a substance that is a probable cancer hazard based on human studies.
- Reproductive and Developmental Toxicity:** 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.
- Skin Contact:** 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 severe irritation, defatting, and dermatitis. May cause lingering affects but not likely to result in permanent damage if the exposure is eliminated.

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:	Kidneys. Eyes. Liver. Skin. Nervous System. Respiratory Tract. Digestive Tract. Blood.
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.
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:	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. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	DO NOT induce vomiting. Get immediate medical attention. 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 MD:	No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point:	105 (CALC.) °F
Fire Hazards:	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the 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.
Extinguishing Media:	Dry chemical Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used to 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.

Hazardous Combustion Products: Carbon monoxide Carbon dioxide

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: Rags or other materials containing this product may oxidize and ignite. All contaminated materials should be isolated immediately to avoid spontaneous combustion. Iron oxide pigments may accelerate this process. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Use spark-proof tools and explosion-proof equipment. Avoid contact with material. Minimize dust generation and accumulation. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Harmful or irritating material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.

Storage: 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: 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. 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: OILY HYDROCARBON
Solids Vol %: 6.8221
Solids Wt %: 13.5825
Material VOC lbs/gal: 6.7994
Material VOC gms/l: 816.5451
Coatings VOC lbs/gal: 6.7994
Coatings VOC gms/l: 816.5463
Weight per gallon lbs: 7.886

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

X. STABILITY AND REACTIVITY

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

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
Benzene, 1,2,4-trimethyl-	95-63-6	Inhalation LC50 Rat : 18 gm/m3/4H; Oral LD50 Rat : 5 gm/kg
Mesitylene	108-67-8	Inhalation LC50 Rat : 24 gm/m3/4H
Naphthalene	91-20-3	Inhalation LC50 Rat : >340 mg/m3/1H; Oral LD50 Rat : 490 mg/kg; Oral LD50 Mouse : 533 mg/kg; Dermal LD50 Rabbit : >20 gm/kg
Manganese dioxide	1313-13-9	Oral LD50 Rat : >3478 mg/kg
Cumene	98-82-8	Inhalation LC50 Mouse : 10 gm/m3/7H; Oral LD50 Rat : 1400 mg/kg; Oral LD50 Mouse : 12750 mg/kg; Dermal LD50 Rabbit : 12300 uL/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
No data available		
Carbon black		

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: 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:

Naphthalene	91-20-3	1.23 %
Ethyl benzene	100-41-4	0.37 %

XIV. TRANSPORTATION INFORMATION

DOT PAINT, 3, UN 1263, III
See 49CFR 172.101 for Special Provisions, Packaging, and Quantity Limitations.

XV. REGULATORY INFORMATION

Chemical Name	Regulation	CASRN	%
1,2,4-Trimethylbenzene	SARA 313 Reportable:	95-63-6	20.21
Naphthalene	SARA 313 Reportable:	91-20-3	1.23
Cumene	SARA 313 Reportable:	98-82-8	1.06
Aluminum oxide	SARA 313 Reportable:	1344-28-1	0.97
m-Xylene	SARA 313 Reportable:	108-38-3	0.7
Ethyl benzene	SARA 313 Reportable:	100-41-4	0.37
o-Xylene	SARA 313 Reportable:	95-47-6	0.27
p-Xylene	SARA 313 Reportable:	106-42-3	0.16
Methanol	SARA 313 Reportable:	67-56-1	0.00
Toluene	SARA 313 Reportable:	108-88-3	0.00
Benzene	SARA 313 Reportable:	71-43-2	0.00
Benzene, ethyl-	California Proposition 65 Cancer List:	100-41-4	0.37
Quartz	California Proposition 65 Cancer List:	14808-60-7	0.32
Carbon Black	California Proposition 65 Cancer List:	1333-86-4	0.02
Benzene, methyl-	California Proposition 65 Cancer List:	108-88-3	0.00
Benzene	California Proposition 65 Cancer List:	71-43-2	0.00
Ethyl alcohol	California Proposition 65	64-17-5	0.00
	Developmental Toxicity:		
Toluene	California Proposition 65	108-88-3	0.00
	Developmental Toxicity:		
Benzene	California Proposition 65	71-43-2	0.00
	Developmental Toxicity:		
Benzene	California Proposition 65 Reproductive - Female:	71-43-2	0.00
aromatic hydrocarbons	New Jersey Right To Know:	64742-95-6	40.27
1,2,4-trimethylbenzene	New Jersey Right To Know:	95-63-6	20.21
aromatic hydrocarbons	New Jersey Right To Know:	64742-94-5	10.98
1,3,5-trimethylbenzene	New Jersey Right To Know:	108-67-8	6.36
iron oxide red	New Jersey Right To Know:	1332-37-2	5.58

XVI. ADDITIONAL INFORMATION**Other Information:**

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MSDS glossary.