



Material Safety Data Sheet

Revision Date: 06-Jan-2012

Revision Number: 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name INTERIOR WOOD FINISHES PENETRATING STAIN - ROYAL MAHOGANY
Product Code F24123
Product Class ALKYD STAIN
Color Red brown

Manufacturer Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 201-573-9600
www.benjaminmoore.com

Emergency Telephone Number(s)
CANUTEC: 613-996-6666

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

Chemical Name	CAS-No	Weight % (max)
Distillates, petroleum, hydrotreated light	64742-47-8	15 - 40%
Stoddard solvent	8052-41-3	15 - 40%
Propylene glycol monomethyl ether	107-98-2	15 - 40%
Iron oxide	1309-37-1	5 - 10%
Hydrotreated heavy naphtha, petroleum	64742-48-9	3 - 7%
Carbon black	1333-86-4	1 - 5%
Aged linseed oil	66071-03-2	1 - 5%
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1%
Ethyl benzene	100-41-4	0.1 - 0.25%
Chromate(1-),bis[methyl N-[7-(hydroxy-kO)-8-[2-[2-(hydroxy-kO)-5-(methylsulfonyl)phenyl]diazanyl-kN1]-1-naphthalenyl]carbamato(2-)]	71839-85-5	0.1 - 0.25%

3. HAZARDS IDENTIFICATION

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Emergency Overview

DANGER

Vapors may be irritating to eyes, nose, throat, and lungs. May cause skin irritation and/or dermatitis. Flammable.

Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded.

Appearance liquid

Odor solvent

Potential Health Effects

Principal Routes of Exposure Eye contact, skin contact and inhalation.

Acute Effects

Eyes

Contact with eyes may cause irritation.

Skin

May cause skin irritation and/or dermatitis.

Inhalation

High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs and may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects.

Ingestion

Ingestion may cause irritation to mucous membranes. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

Chronic Effects

Avoid repeated exposure

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions None known

HMIS **Health:** 1* **Flammability:** 3 **Reactivity:** 0 **PPE:** -

HMIS Legend

0 - Minimal Hazard

1 - Slight Hazard

2 - Moderate Hazard

3 - Serious Hazard

4 - Severe Hazard

* - Chronic Hazard

X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

4. FIRST AID MEASURES

General Advice

If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. Call a physician immediately
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.
Notes To Physician	Treat symptomatically
Protection Of First-Aiders	Use personal protective equipment

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry powder or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Protective Equipment And Precautions For Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
Specific Hazards Arising From The Chemical	Flammable. Closed containers may rupture if exposed to fire or extreme heat. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.			
Sensitivity To Mechanical Impact	No			
Sensitivity To Static Discharge	Yes			
Flash Point Data				
Flash Point (°F)	81			
Flash Point (°C)	27			
Flash Point Method	PMCC			
Flammability Limits In Air				
Upper Explosion Limit	Not available			
Lower Explosion Limit	Not available			
NFPA	Health: 1	Flammability: 3	Instability: 0	Special: Not Applicable

NFPA Legend

- 0 - Not Hazardous
- 1 - Slightly
- 2 - Moderate
- 3 - High
- 4 - Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions** Use personal protective equipment. Remove all sources of ignition.
- Environmental Precautions** Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.
- Methods For Clean-Up** Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.
- Other Information** None known

7. HANDLING AND STORAGE

- Handling** Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Wear personal protective equipment. Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from open flames, hot surfaces and sources of ignition.
- Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep in properly labeled containers.
- DANGER** - Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Hazardous Components

Chemical Name	ACGIH	Alberta	British Columbia	Ontario	Quebec
Distillates, petroleum, hydrotreated light	N/E	N/E	200 mg/m ³ - TWA Skin absorption can contribute to overall exposure.	N/E	N/E

Stoddard solvent	100 ppm - TWA	100 ppm - TWA 572 mg/m ³ - TWA	290 mg/m ³ - TWA 580 mg/m ³ - STEL	525 mg/m ³ - TWAEV	100 ppm - TWAEV 525 mg/m ³ - TWAEV
Propylene glycol monomethyl ether	100 ppm - TWA 150 ppm - STEL	100 ppm - TWA 369 mg/m ³ - TWA 150 ppm - STEL 553 mg/m ³ - STEL	50 ppm - TWA 75 ppm - STEL	100 ppm - TWAEV 365 mg/m ³ - TWAEV 150 ppm - STEV 550 mg/m ³ - STEV	100 ppm - TWAEV 369 mg/m ³ - TWAEV 150 ppm - STEV 553 mg/m ³ - STEV
Iron oxide	5 mg/m ³ - TWA	5 mg/m ³ - TWA	10 mg/m ³ - STEL 2 mg/m ³ - STEL	10 mg/m ³ - TWAEV 5 mg/m ³ - TWAEV	5 mg/m ³ - TWAEV
Hydrotreated heavy naphtha, petroleum	N/E	N/E	N/E	N/E	N/E
Carbon black	3.5 mg/m ³ - TWA	3.5 mg/m ³ - TWA	3.5 mg/m ³ - TWA	3.5 mg/m ³ - TWAEV	3.5 mg/m ³ - TWAEV
Aged linseed oil	N/E	N/E	N/E	N/E	N/E
1,2,4-Trimethylbenzene	N/E	N/E	N/E	N/E	N/E
Ethyl benzene	100 ppm - TWA 125 ppm - STEL	100 ppm - TWA 434 mg/m ³ - TWA 125 ppm - STEL 543 mg/m ³ - STEL	100 ppm - TWA 125 ppm - STEL	100 ppm - TWAEV 435 mg/m ³ - TWAEV 125 ppm - STEV 540 mg/m ³ - STEV	100 ppm - TWAEV 434 mg/m ³ - TWAEV 125 ppm - STEV 543 mg/m ³ - STEV
Chromate(1-),bis[methyl N-[7-(hydroxy-kO)-8-[2-[2-(hydroxy-kO)-5-(methylsulfonyl)phenyl]diazanyl-kN1]-1-naphthalenyl]carbamato(2-)]	0.01 mg/m ³ - TWA	0.01 mg/m ³ - TWA	0.01 mg/m ³ - TWA	0.01 mg/m ³ - TWAEV 0.05 mg/m ³ - TWAEV	0.01 mg/m ³ - TWAEV

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
 Alberta - Alberta Occupational Exposure Limits
 British Columbia - British Columbia Occupational Exposure Limits
 Ontario - Ontario Occupational Exposure Limits
 Quebec - Quebec Occupational Exposure Limits
 N/E - Not established

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection
Skin Protection
Respiratory Protection

Safety glasses with side-shields.
 Long sleeved clothing. Protective gloves.
 In operations where exposure limits are exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors.

Hygiene Measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

liquid

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor	solvent
Density (lbs/gal)	7.7 - 7.8
Specific Gravity	0.92 - 0.94
pH	Not available
Viscosity (centistokes)	Not available
Evaporation Rate	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Wt. % Solids	25 - 35
Vol. % Solids	15 - 25
Wt. % Volatiles	65 - 75
Vol. % Volatiles	75 - 85
VOC Regulatory Limit (g/L)	< 500
Boiling Point (°F)	248
Boiling Point (°C)	120
Freezing Point (°F)	Not available
Freezing Point (°C)	Not available
Flash Point (°F)	81
Flash Point (°C)	27
Flash Point Method	PMCC
Upper Explosion Limit	Not available
Lower Explosion Limit	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions. Hazardous polymerisation does not occur.
Conditions To Avoid	Keep away from open flames, hot surfaces, static electricity and sources of ignition.
Incompatible Materials	Incompatible with strong acids and bases and strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors.
Possibility Of Hazardous Reactions	None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product

Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

Component

Distillates, petroleum, hydrotreated light

LD50 Oral: > 5,000 mg/kg (Rat)
 LD50 Dermal: > 3,000 mg/kg (Rabbit)

Stoddard solvent

LD50 Oral: > 5,000 mg/kg (Rat)
 LD50 Dermal: > 3160 mg/kg (Rabbit)
 LC50 Inhalation (Vapor): > 6.1 mg/L (Rat)

Propylene glycol monomethyl ether

LD50 Oral: 6,600 mg/kg (Rat)
 LD50 Dermal: 13,000 mg/kg (Rabbit)
 LC50 Inhalation (Vapor): 10,000 ppm (Rat)

Iron oxide

LD50 Oral: > 5000 mg/kg (Rat) vendor data

Hydrotreated heavy naphtha, petroleum

LD50 Oral: > 5,000 mg/kg (Rat) vendor data
 LD50 Dermal: > 3,000 mg/kg (Rabbit)

Carbon black

LD50 Oral: > 15400 mg/kg (Rat)
 LD50 Dermal: > 3000 mg/kg (Rabbit)

1,2,4-Trimethylbenzene

LD50 Oral: 5000 mg/kg (Rat)
 LC50 Inhalation (Vapor): 18000 mg/m³ (Rat, 4 hr.)

Ethyl benzene

LD50 Oral: 3500 mg/kg (Rat)
 LD50 Dermal: > 5000 mg/kg (Rabbit)
 LC50 Inhalation (Vapor): 55000 mg/m³ (Rat, 2 hr.)
 Sensitization: No sensitizing effects known.

Chronic Toxicity

Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen
Carbon black		2B - Possible Human Carcinogen		Listed

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen Listed
Ethyl benzene	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	2B - Possible Human Carcinogen		Listed
Chromate(1-),bis[methyl N-[7-(hydroxy-kO)-8-[2-[2-(hydroxy-kO)-5-(methylsulfonyl)phenyl]diazanyl-kN1]-1-naphthalenyl]carbamato(2-)]	A1 - Confirmed Human Carcinogen			

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
IARC - International Agency for Research on Cancer
NTP - National Toxicity Program
OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

Product

Acute Toxicity to Fish

No information available

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

Component

Acute Toxicity to Fish

Ethyl benzene

LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

Ethyl benzene

EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

Acute Toxicity to Aquatic Plants

Ethyl benzene

EC50: 4.6 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with federal, state, provincial, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

TDG

Proper Shipping Name	Paint
Hazard Class	3
UN-No	UN1263
Packing Group	III

ICAO / IATA Contact the preparer for further information.

IMDG / IMO Contact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

United States TSCA	Yes - All components are listed or exempt.
Canada DSL	Yes - All components are listed or exempt.

National Pollutant Release Inventory (NPRI)

NPRI Parts 1- 4

This product contains the following Parts 1-4 NPRI chemicals:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
Propylene glycol monomethyl ether	107-98-2	15 - 40%
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1%
Ethyl benzene	100-41-4	0.1 - 0.25%
Chromate(1-),bis[methyl N-[7-(hydroxy-kO)-8-71839-85-5 [2-[2-(hydroxy-kO)-5- (methylsulfonyl)phenyl]diazanyl-kN1]-1- naphthalenyl]carbamato(2-)]		0.1 - 0.25%

This product may contain trace amounts of (other) NPRI Parts 1-4 reportable chemicals. Contact the preparer for further information.

15. REGULATORY INFORMATION

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

Chemical Name	CAS-No	Weight % (max)
Distillates, petroleum, hydrotreated light	64742-47-8	15 - 40%
Stoddard solvent	8052-41-3	15 - 40%
Hydrotreated heavy naphtha, petroleum	64742-48-9	3 - 7%
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1%

This product may contain trace amounts of (other) NPRI Part 5 reportable chemicals. Contact the preparer for further information.

WHMIS Regulatory Status

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

- B2 Flammable liquid
- B6 Reactive flammable material
- D2A Very toxic materials
- D2B Toxic materials



16. OTHER INFORMATION

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by logging onto Health Canada @ http://www.hc-sc.gc.ca/iyh-vsv/prod/paint-peinture_e.html.

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Disclaimer

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F24123

End of MSDS