



## Material Safety Data Sheet

Revision Date: 11-Jul-2007

Revision Number: 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	BENWOOD INT WOOD FINISH POLYURETHANE FLAT
Product Code	N42400
Color	All
<b>Manufacturer</b>	<b>Emergency Telephone Number(s)</b>
Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 Phone: 201-573-9600 <a href="http://www.benjaminmoore.com">www.benjaminmoore.com</a>	CHEMTREC: 800-424-9300

### 2. COMPOSITION INFORMATION ON COMPONENTS

#### Hazardous Components

Chemical Name	CAS-No	Weight % (max)
Stoddard solvent	8052-41-3	25
Silicon dioxide, wax coated	112926-00-8	10
1,2,4-Trimethylbenzene	95-63-6	5
Solvent naphtha, petroleum, light aromatic	64742-95-6	5
Xylene	1330-20-7	5
Ethyl benzene	100-41-4	5
1,3,5-Trimethylbenzene	108-67-8	5
Cumene	98-82-8	5

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

#### DANGER

Vapors may be irritating to eyes, nose, throat, and lungs. May cause skin irritation and/or dermatitis. Combustible material. Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded.

**Appearance** milky amber liquid

**Odor** mild

#### OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Potential Health Effects

<b>Principal Routes of Exposure</b>	Eye contact, skin contact and inhalation.
<b>Acute Effects</b>	
<b>Eyes</b>	Contact with eyes may cause irritation.
<b>Skin</b>	May cause skin irritation and/or dermatitis.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Chronic Effects</b>	Avoid repeated exposure

See Section 11 for additional Toxicological information.

**Aggravated Medical Conditions** None known

**HMIS**      **Health:** 2\*      **Flammability:** 2      **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, Benjamin Moore & Co., 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**

<b>General Advice</b>	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	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** Combustible material. 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) 104  
Flash Point (°C) 40  
Flash Point Method PMCC

**Flammability Limits In Air**

Lower Explosion Limit Not available  
Upper Explosion Limit Not available

**NFPA**    **Health:** 2    **Flammability:** 2    **Instability:** 0    **Special:** Not Applicable

**NFPA Legend**

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

*The ratings assigned by Benjamin Moore & Co. 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](http://www.nfpa.org).*

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment. Remove all sources of ignition.

<b>Environmental Precautions</b>	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.
<b>Methods For Clean-Up</b>	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.
<b>Other Information</b>	None known

## 7. HANDLING AND STORAGE

<b>Handling</b>	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.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep in properly labeled containers.
<b>DANGER</b> - 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 AND PERSONAL PROTECTION

### Exposure Limits

#### Hazardous Components

Chemical Name	ACGIH	OSHA
Stoddard solvent	TWA 100 ppm	PEL 2900 mg/m <sup>3</sup> / 500 ppm
Silicon dioxide, wax coated	N/E	N/E
1,2,4-Trimethylbenzene	TWA 25 ppm	N/E
Solvent naphtha, petroleum, light aromatic	N/E	N/E
Xylene	TWA 100 ppm STEL: 150 ppm	PEL 435 mg/m <sup>3</sup> / 100 ppm
Ethyl benzene	TWA 100 ppm STEL: 125 ppm	PEL 435 mg/m <sup>3</sup> / 100 ppm
1,3,5-Trimethylbenzene	TWA 25 ppm	N/E
Cumene	TWA 50 ppm	PEL 245 mg/m <sup>3</sup> / 50 ppm Can be absorbed through the skin.

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established

#### Engineering Measures

Ensure adequate ventilation, especially in confined areas.

#### Personal Protective Equipment

<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin Protection</b>	Long sleeved clothing. Protective gloves.
<b>Respiratory Protection</b>	In case of insufficient ventilation wear suitable respiratory equipment. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors.
<b>Hygiene Measures</b>	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

<b>Appearance</b>	milky amber liquid
<b>Odor</b>	mild
<b>Density (lbs/gal)</b>	7.8
<b>Specific Gravity</b>	0.895
<b>pH</b>	Not available
<b>Viscosity (centistokes)</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available
<b>Wt. % Solids</b>	> 60
<b>Vol. % Solids</b>	Not available
<b>Wt. % Volatiles</b>	< 40
<b>Vol. % Volatiles</b>	Not available
<b>VOC (g/L)</b>	< 350
<b>Boiling Point (°F)</b>	312 - 385
<b>Boiling Point (°C)</b>	155 - 196
<b>Freezing Point (°F)</b>	Not available
<b>Freezing Point (°C)</b>	Not available
<b>Flash Point (°F)</b>	104
<b>Flash Point (°C)</b>	40
<b>Flash Point Method</b>	PMCC
<b>Upper Explosion Limit</b>	Not available
<b>Lower Explosion Limit</b>	Not available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions. Hazardous polymerisation does not occur.
<b>Conditions To Avoid</b>	Keep away from open flames, hot surfaces, static electricity and sources of ignition.
<b>Incompatible Materials</b>	Incompatible with strong acids and bases and strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of irritating gases and vapors.
<b>Possibility Of Hazardous Reactions</b>	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**

No information available

#### Stoddard solvent

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

LD50 Dermal: > 3160 mg/kg (Rabbit)

LC50 Inhalation (Vapor): > 6.1 mg/L (Rat)

#### 1,2,4-Trimethylbenzene

LD50 Oral: 5000 mg/kg (Rat)

LC50 Inhalation (Vapor): 18000 mg/m<sup>3</sup> (Rat, 4 hr.)

#### Solvent naphtha, petroleum, light aromatic

LD50 Oral: 8400 mg/kg (Rat)

#### Xylene

LD50 Oral: 4300 mg/kg (Rat)

LD50 Dermal: > 1700 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.)

#### Ethyl benzene

LD50 Oral: 3500 mg/kg (Rat)

LD50 Dermal: 17800 µg/L (Rabbit)

LC50 Inhalation (Vapor): 55000 mg/m<sup>3</sup> (Rat, 2 hr.)

#### 1,3,5-Trimethylbenzene

LD50 Oral: 5,000 mg/kg (Rat)

LC50 Inhalation (Vapor): 24,000 mg/m<sup>3</sup> (Rat, 4 hr.)

#### Cumene

LD50 Oral: 1400 - 2900 mg/kg (Rat)

LD50 Dermal: 12300 µL/kg (Rabbit)

LC50 Inhalation (Vapor): 39000mg/kg (Rat)

### Chronic Toxicity

#### **Carcinogenicity**

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

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen
Stoddard solvent		3 Classification not possible from current data.		
Silicon dioxide, wax coated		3 Classification not possible from current data.		
Xylene		3 Classification not possible from current data.		
Ethyl benzene		2B Possible 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

No information available

##### Acute Toxicity to Aquatic Invertebrates

No information available

##### Acute Toxicity to Aquatic Plants

No information available

## 13. DISPOSAL CONSIDERATIONS

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose of in accordance with federal, state, and local regulations. Dry, empty containers may be recycled in a can recycling program. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

**ICAO / IATA** Contact Benjamin Moore & Co. for further information.

**IMDG / IMO** Contact Benjamin Moore & Co. 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.

#### Federal Regulations

##### SARA 311/312 hazardous categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<b>Chemical Name</b>	<b>CAS-No</b>	<b>Weight % (max)</b>
1,2,4-Trimethylbenzene	95-63-6	5
Xylene	1330-20-7	5
Ethyl benzene	100-41-4	5
Cumene	98-82-8	5

*This product may contain trace amounts of (other) SARA reportable chemicals. Contact Benjamin Moore & Co. for further information.*

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
Xylene	1330-20-7	5
Ethyl benzene	100-41-4	5
Cumene	98-82-8	5

*This product may contain trace amounts of (other) HAPs chemicals. Contact Benjamin Moore & Co. for further information.*

## State Regulations

### California Proposition 65

*This product may contain small amounts of materials known to the state of California to cause cancer or reproductive harm.*

### State Right-to-Know

<b>Chemical Name</b>	<b>Massachusetts</b>	<b>New Jersey</b>	<b>Pennsylvania</b>	<b>Louisiana</b>	<b>Rhode Island</b>
Stoddard solvent	X	X	X		X
Silicon dioxide, wax coated	X	X	X		
1,2,4-Trimethylbenzene	X	X	X		X
Xylene	X	X	X		X
Ethyl benzene	X	X	X		X
1,3,5-Trimethylbenzene	X	X	X		X
Cumene	X	X	X		X

### **Legend**

X - Listed

## 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 contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

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**End of MSDS**