

# **Material Safety Data Sheet**

Revision Date: 21-Oct-2009 Revision Number: 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name BENJAMIN MOORE HARDWOOD FINISH

Product Code C321

Product Class ALKYD STAIN

Color

Manufacturer Emergency Telephone Number(s)
Beniamin Moore & Co. CHEMTREC: 800-424-9300

ΑII

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

# 2. COMPOSITION INFORMATION ON COMPONENTS

**Hazardous Components** 

Chemical Name	CAS-No	Weight % (max)
4-Chlorobenzotrifluoride	98-56-6	20
Distillates, petroleum, hydrotreated light	64742-47-8	15
Silica, amorphous	7631-86-9	10
Stoddard solvent	8052-41-3	10
Zinc borate hydrate	138265-88-0	5
2-Butoxyethanol	111-76-2	0.5

# 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 liquid Odor solvent

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

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# **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

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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: 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 choosen 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)

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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) 108
Flash Point (°C) 42
Flash Point Method PMCC

Flammability Limits In Air

Lower Explosion LimitNot availableUpper Explosion LimitNot available

NFPA Health: 1 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.

# 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

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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 AND PERSONAL PROTECTION

#### **Exposure Limits**

**Hazardous Components** 

Chemical Name	ACGIH	OSHA
4-Chlorobenzotrifluoride	N/E	2.5 mg/m <sup>3</sup> - TWA
Distillates, petroleum, hydrotreated light	N/E	N/E
Silica, amorphous	N/E	- (80)/(% SiO2) mg/m³ TWA
		20 mppcf - TWA
Stoddard solvent	100 ppm - TWA	2900 mg/m³ - TWA
		500 ppm - TWA
Zinc borate hydrate	N/E	N/E
2-Butoxyethanol	20 ppm - TWA	240 mg/m <sup>3</sup> - TWA
·		50 ppm - TWA
		prevent or reduce skin absorption

#### 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** 

**Eye/Face Protection** Safety glasses with side-shields.

**Skin Protection** Long sleeved clothing. Protective gloves.

Respiratory Protection 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

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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 Odor solvent Density (lbs/gal) 8.6 - 8.8 **Specific Gravity** 1.0 - 1.1Not available pН Not available Viscosity (centistokes) **Evaporation Rate** Not available **Vapor Pressure** Not available Not available **Vapor Density** Wt. % Solids 55 - 75 55 - 75 Vol. % Solids Wt. % Volatiles 25 - 45 Vol. % Volatiles 25 - 45 **VOC Regulatory Limit (g/L)** < 250 **Boiling Point (°F)** 322 **Boiling Point (°C)** 161

Freezing Point (°F) Not available Freezing Point (°C) Not available

Flash Point (°F)

Flash Point (°C)

Flash Point Method

Upper Explosion Limit

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

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# **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

# 4-Chlorobenzotrifluoride

LD50 Oral: 13 g/kg (Rat) vendor data LC50 Inhalation (Vapor): 22000 mg/m³ (Rat)

# Distillates, petroleum, hydrotreated light

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

#### Silica, amorphous

LD50 Oral: > 10000 mg/kg (Rat) LD50 Dermal: 2,000 mg/kg (Rabbit) LC50 Inhalation (Dust): > 2 mg/L

#### Stoddard solvent

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

#### Zinc borate hydrate

LD50 Oral: > 10000 mg/kg (Rat) vendor data LD50 Dermal: > 10000 mg/kg (Rabbit) LC50 Inhalation (Dust): > 5 mg/L (Rat, 4 hr.)

# 2-Butoxyethanol

LD50 Oral: 470 mg/kg (Rat) LD50 Dermal: 220 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 450 ppm (Rat, 4 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
2-Butoxvethanol	A3			
2 Batoxyctrianor				

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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

2-Butoxyethanol

LC50: 1490 mg/L (Bluegill sunfish - 96 hr.)

# **Acute Toxicity to Aquatic Invertebrates**

No information available

#### **Acute Toxicity to Aquatic Plants**

No information available

# 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** 

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

#### 14. TRANSPORT INFORMATION

In the US this material may be reclassified as a Combustible Liquid and is not regulated in containers of less than 119 gallons (450 liters) via surface transportation (refer to 49CFR173.120(b)(2) for further information).

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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:

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:

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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Louisiana	Rhode Island
Silica, amorphous	X	X	X		
Stoddard solvent	X	Χ	X		Χ

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2-Butoxyethanol	X	X	X	X

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# 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.

Prepared By Product Stewardship Department

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Disclaimer

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**End of MSDS**