

Revision Date: 24-Aug-2023 Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name HP EPOXY MASTIC - TINTABLE WHITE

Product Code HP4600-7BFR

Alternate Product Code UF447B
Product Class epoxy
Color All
Recommended use Paint

Restrictions on use No information available

Manufactured For

Benjamin Moore & Co., Limited

8775 Keele Street Concord ON L4K 2N1 Phone: 1-800-361-5898

www.benjaminmoore.com/en-ca

Manufacturer

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645

Phone: 1-866-708-9180 www.benjaminmoore.com **Emergency Telephone**

CHEMTREC: +1 703-741-5970 / 1-800-424-9300 +1 703-527-3887 (outside US & Canada)

CANUTEC: 613-996-6666 (Transport Emergency Only)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the Hazardous Products Regulations (HPR: SOR/2015-17)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 3

Label elements

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Danger

Hazard statements

Causes skin irritation

Causes serious eye irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May cause genetic defects

May cause cancer

Suspected of damaging fertility or the unborn child

May cause respiratory irritation

May cause drowsiness or dizziness

Causes damage to organs through prolonged or repeated exposure

Flammable liquid and vapor



Appearance liquid

Odor solvent

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Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Ground and bond container and receiving equipment

Use only non-sparking tools

Take action to prevent static discharges

Keep cool

Wear protective gloves/clothing and eye/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

If eye irritation persists: Get medical advice/attention

Skin

If skin irritation or rash occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

Inhalation

If experiencing respiratory symptoms: Call a POISON CENTER or doctor IF INHALED: Remove person to fresh air and keep comfortable for breathing

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

No information available

IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

3. COMPOSITION INFORMATION ON COMPONENTS

Chemical name	CAS No	Weight-%	Hazardous Material	Date HMIRA filed and
		_	Information Review Act	date exemption granted
			registry number (HMIRA	(if applicable)
			registry #)	
Polyamide epoxy	-	10 - 30%	HMIRC # 03321980	Filed: March 1, 2019
Titanium dioxide	13463-67-7	10 - 30%	-	-
Zinc phosphate	7779-90-0	10 - 30%	-	-
Talc	14807-96-6	7 - 13%	-	-
Benzyl alcohol	100-51-6	5 - 10%	-	-
Silica, crystalline	14808-60-7	5 - 10%	-	-
Xylene	1330-20-7	3 - 7%	-	-
Propylene glycol monomethyl	107-98-2	1 - 5%	-	-
ether				
Ethyl benzene	100-41-4	1 - 5%	-	-
Triethylenetetramine	112-24-3	1 - 5%	-	-
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1%	-	-
Phenol,	90-72-2	0.25 - 0.5%	-	-
2,4,6-tris[(dimethylamino)methyl				
]-				
1,3,5-Trimethylbenzene	108-67-8	0.1 - 0.25%	-	-

Confidential Business Information note

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General Advice

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

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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

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symptoms persist, call a physician.

Skin Contact Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Wash clothing before reuse. Destroy contaminated articles such as shoes.

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.

Protection Of First-Aiders

Use personal protective equipment.

Most Important Symptoms/Effects

May cause allergy or asthma symptoms or breathing

difficulties if inhaled. May cause allergic skin reaction.

Notes To Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties Vapors may travel considerable distance to a source of

ignition and flash back. Vapors may cause flash fire.

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.

Hazardous combustion products

Burning may result in carbon dioxide, carbon monoxide

and other combustion products of varying composition

which may be toxic and/or irritating.

Specific Hazards Arising From The Chemical Flammable. Flash back possible over considerable

distance. Keep product and empty container away from heat and sources of ignition. Closed containers may rupture if exposed to fire or extreme heat. 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) 80
Flash Point (°C) 27
Method PMCC

Flammability Limits In Air

Lower flammability limit:

Upper flammability limit:

No data available

No data available

NFPA

Health hazards 2
Flammability 3
Stability 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 Remove all sources of ignition. Take precautions to

prevent flashback. Ground and bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal

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protective equipment.

Other Information 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.

Environmental precautionsSee Section 12 for additional Ecological Information.

Methods for Cleaning Up

Dam up. Soak up with inert absorbent material. Use a non-sparking or explosion proof means to transfer material

non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Clean

contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in ventilated areas. Prevent vapor build-up by providing adequate ventilation during and after use.

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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 heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children.

Incompatible Materials

Incompatible with strong acids and bases and strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Chemical name	ACGIH TLV	Alberta	British Columbia	Ontario	Quebec
Titanium dioxide	TWA: 0.2 mg/m ³	10 mg/m³ - TWA	10 mg/m³ - TWA	10 mg/m ³ - TWA	10 mg/m ³ - TWAEV
	nanoscale respirable		3 mg/m³ - TWA		
	particulate matter				
	TWA: 2.5 mg/m ³				
	finescale respirable				
	particulate matter				
Talc	TWA: 2 mg/m ³	2 mg/m³ - TWA	2 mg/m³ - TWA	2 mg/m³ - TWA	2 mg/m³ - TWAEV
	particulate matter				
	containing no asbestos				
	and <1% crystalline				
	silica, respirable				
	particulate matter				
Silica, crystalline	TWA: 0.025 mg/m ³	TWA: 0.025 mg/m ³	TWA: 0.025 mg/m ³	TWA: 0.10 mg/m ³	TWA: 0.1 mg/m ³
	respirable particulate				
	matter				
Xylene	TWA: 20 ppm	100 ppm - TWA	100 ppm - TWA	100 ppm - TWA	100 ppm - TWAEV
		434 mg/m ³ - TWA	150 ppm - STEL	150 ppm - STEL	434 mg/m³ - TWAEV
		150 ppm - STEL			150 ppm - STEV
		651 mg/m ³ - STEL			651 mg/m ³ - STEV
Propylene glycol monomethyl		100 ppm - TWA	50 ppm - TWA	50 ppm - TWA	100 ppm - TWAEV
ether	TWA: 50 ppm	369 mg/m ³ - TWA	100 ppm - STEL	100 ppm - STEL	369 mg/m ³ - TWAEV
		150 ppm - STEL			150 ppm - STEV
		553 mg/m ³ - STEL			553 mg/m ³ - STEV
Ethyl benzene	Ototoxicant - potential	100 ppm - TWA	20 ppm - TWA	20 ppm - TWA	100 ppm - TWAEV
	to cause hearing	434 mg/m³ - TWA			434 mg/m³ - TWAEV
	disorders	125 ppm - STEL			125 ppm - STEV
	TWA: 20 ppm	543 mg/m ³ - STEL			543 mg/m ³ - STEV
Triethylenetetramine	-	-	-	0.5 ppm - TWA	-

				3 mg/m³ - TWA Danger of cutaneous absorption	
1,2,4-Trimethylbenzene	TWA: 10 ppm	•	-	-	-
1,3,5-Trimethylbenzene	TWA: 25 ppm	-	_	-	-

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.

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Personal Protective Equipment

Eye/Face Protection

Skin Protection

Respiratory Protection

Tightly fitting safety goggles If splashes are likely to occur, wear: Safety glasses with side-shields

Protective gloves and impervious clothing.

Use only with adequate ventilation. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid Odor solvent

No information available **Odor Threshold**

Density (lbs./gal) 12.8 - 13.2 **Specific Gravity** 1.53 - 1.59

No information available Hq Viscosity (cps) No information available Solubility(ies) No information available

Water solubility No information available No information available **Evaporation Rate**

Vapor pressure @20 °C (kPa) No information available Relative vapor density No information available

80 - 90 Wt. % Solids 70 - 80 Vol. % Solids Wt. % Volatiles 10 - 20Vol. % Volatiles 20 - 30VOC Regulatory Limit (g/L) < 250 **Boiling Point (°F)** 248

Boiling Point (°C) Freezing point (°F) No information available Freezing Point (°C) No information available

Flash point (°F)

120

80

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Flash Point (°C) 27
Method PMCC

Flammability (solid, gas)
Upper flammability limit:
Not applicable
Not applicable
Not applicable

Autoignition Temperature (°F)No information availableAutoignition Temperature (°C)No information availableDecomposition Temperature (°F)No information availableDecomposition Temperature (°C)No information availablePartition coefficientNo information available

10. STABILITY AND REACTIVITY

Reactivity Not Applicable

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. Sparks. Elevated

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temperature.

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

Product Information

Information on likely routes of exposure

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

Acute Toxicity

Product Information 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.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eye contactContact with eyes may cause irritation.

Skin contact May cause skin irritation and/or dermatitis. Prolonged skin

contact may defat the skin and produce dermatitis.

Harmful by inhalation. High vapor / aerosol concentrations Inhalation

are irritating to the eyes, nose, throat and lungs and may

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cause headaches, dizziness, drowsiness,

unconsciousness, and other central nervous system

effects.

Ingestion Harmful if swallowed. 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.

Sensitization Respiratory sensitizer. May cause allergy or asthma

symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

Neurological Effects No information available. No information available. **Mutagenic Effects**

Possible risk of impaired fertility. Possible risk of harm to

the unborn child.

Developmental Effects No information available. Target organ effects

Respiratory system, Eyes, Lungs.

May cause disorder and damage to the, Respiratory

system.

STOT - repeated exposure Causes damage to organs through prolonged or repeated

exposure if inhaled, Central nervous system, Causes damage to organs through prolonged or repeated

exposure.

Other adverse effects No information available.

May be harmful if swallowed and enters airways. Small **Aspiration Hazard**

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

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 3776 mg/kg ATEmix (inhalation-dust/mist) 9.2 mg/l **ATEmix (inhalation-vapor)** 321 mg/l

Component Information

Reproductive Effects

STOT - single exposure

Caution - This mixture contains a substance not yet fully tested

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Polyamide epoxy	< 2000 mg/kg	>2000 mg/kg	= 5.0 mg/L (Rat) 4 h
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Zinc phosphate 7779-90-0	> 5000 mg/kg (Rat)	-	-
Benzyl alcohol 100-51-6	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	= 8.8 mg/L (Rat) 4 h
Xylene 1330-20-7	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h
Propylene glycol monomethyl ether 107-98-2	= 5000 mg/kg (Rat)	= 13 g/kg (Rabbit)	> 7559 ppm (Rat) 6 h
Ethyl benzene	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h

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100-41-4			
Triethylenetetramine 112-24-3	= 2500 mg/kg (Rat)	= 550 mg/kg(Rabbit)	-
1,2,4-Trimethylbenzene 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³ (Rat) 4 h
Phenol, 2,4,6-tris[(dimethylamino)methyl]- 90-72-2	= 1200 mg/kg(Rat)	= 1280 mg/kg(Rat)	-
1,3,5-Trimethylbenzene 108-67-8	= 5000 mg/kg (Rat)	-	= 24 g/m³ (Rat) 4 h

Chronic Toxicity

Carcinogenicity

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

Chemical name	IARC	NTP
	2B - Possible Human Carcinogen	
Titanium dioxide	_	
	1 - Human Carcinogen	Known
Silica, crystalline		
	2B - Possible Human Carcinogen	
Ethyl benzene	_	

- Crystalline Silica has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint.
- Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

Legend

IARC - International Agency for Research on Cancer

NTP - National Toxicity Program

OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

The environmental impact of this product has not been fully investigated.

Product Information

Acute Toxicity to Fish

No information available

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

Persistence / Degradability

No information available.

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Bioaccumulation

There is no data for this product.

Mobility in Environmental Media

No information available.

Ozone

Not applicable

Component Information

Acute Toxicity to Fish

Titanium dioxide

LC50: > 1000 mg/L (Fathead Minnow - 96 hr.)

Xylene

LC50: 13.5 mg/L (Rainbow Trout - 96 hr.)

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.)

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.

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Empty Container Warning Emptied containers may retain product residue. Follow

label warnings even after container is emptied. Residual

vapors may explode on ignition.

14. TRANSPORT INFORMATION

TDG

Proper Shipping Name Paint Transport hazard class(es) 3

UN-No UN1263

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Packing Group ||

Description UN1263, Paint, 3, III

ICAO / IATA Contact the preparer for further information.

IMDG / IMOContact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

TSCA: United StatesYes - All components are listed or exempt.
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:

Chemical name	CAS No	Weight-%	NPRI Parts 1- 4
Xylene	1330-20-7	3 - 7%	Listed
Ethyl benzene	100-41-4	1 - 5%	Listed
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1%	Listed

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

Chemical name	CAS No	Weight-%	NPRI Part 5
Xylene	1330-20-7	3 - 7%	Listed
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1%	Listed
1,3,5-Trimethylbenzene	108-67-8	0.1 - 0.25%	Listed

WHMIS Regulatory Status

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

16. OTHER INFORMATION

HMIS

Health hazards 2*
Flammability 3
Reactivity: 0
Personal protection -

HMIS Legend

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- 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.

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 at

http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked questions-questions posees-eng.php.

Product Stewardship Department Prepared By

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645

800-225-5554

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Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

End of Safety Data Sheet