

Revision Date: 01-Jul-2016 Revision Number: 1

## PRODUCT AND COMPANY IDENTIFICATION

Product Name MEGAVAR CLEAR WATER WHITE CONVERSION VARNISH

**GLOSS** 

Product Code 1M-4309FR

Alternate Product Code HL0530

Product Class FINISH COATING

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 lenmar-coatings.ca

Manufacturer

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

Phone: 800-225-5554 lenmar-coatings.com

**Emergency Telephone Number(s)** 

CANUTEC: 613-996-6666

## 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 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 2

#### Label elements

Hazard statements

Danger			

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Causes skin irritation

Causes serious eye damage

May cause an allergic skin reaction

Suspected of causing cancer

May damage fertility or the unborn child

May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure

Highly flammable liquid and vapor



Appearance liquid Odor solvent

### **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

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

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

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces, no smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

#### **Precautionary Statements - Response**

If exposed or concerned get medical attention

#### ∟yes

If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or physician

#### Skin

If skin irritation or rash occurs get medical attention

If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water

Wash contaminated clothing before reuse

#### Inhalation

If inhaled remove victim to fresh air and keep at rest in a position 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

### Other hazards

**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 % (max)
n-Butyl acetate	123-86-4	10 - 30%
Isobutyl alcohol	78-83-1	7 - 13%
Ethanol	64-17-5	5 - 10%
Propylene glycol monomethyl ether acetate	108-65-6	5 - 10%
Acetone	67-64-1	3 - 7%
VM&P naphtha	64742-89-8	1 - 5%
Toluene	108-88-3	1 - 5%
Isopropyl alcohol	67-63-0	1 - 5%
Methyl ethyl ketoxime	96-29-7	0.1 - 0.25%
Octane	111-65-9	0.1 - 0.25%
Heptane	142-82-5	0.1 - 0.25%
2-Methoxy-1-propanol acetate	70657-70-4	0.1 - 0.25%

## 4. FIRST AID MEASURES

General Advice If symptoms persist, call a physician. Show this safety data

sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Immediately flush

with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15

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minutes.

Skin Contact Wash off immediately with soap and plenty of water

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 allergic skin reaction.

Notes To Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

ignition and flash back. Vapors may cause flash fire.

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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) 39
Flash Point (°C) 4
Flash Point Method PMCC

Flammability Limits In Air

Lower Explosion LimitNot availableUpper Explosion LimitNot available

NFPA Health: 2 Flammability: 3 Instability: 1 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

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.

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**Environmental Precautions** 

See Section 12 for additional Ecological Information.

**Methods For Clean-Up** 

Dam up. Soak up with inert absorbent material. Use a 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.

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**

No exposure limits have been established for this product.

Chemical Name	ACGIH	Alberta	British Columbia	Ontario	Quebec
n-Butyl acetate	150 ppm - TWA	150 ppm - TWA	20 ppm - TWA	150 ppm - TWA	150 ppm - TWAEV
	200 ppm - STEL	713 mg/m³ - TWA		200 ppm - STEL	713 mg/m³ - TWAEV
		200 ppm - STEL			200 ppm - STEV
		950 mg/m <sup>3</sup> - STEL			950 mg/m <sup>3</sup> - STEV
Isobutyl alcohol	50 ppm - TWA	50 ppm - TWA	50 ppm - TWA	50 ppm - TWA	50 ppm - TWAEV
		152 mg/m <sup>3</sup> - TWA			152 mg/m <sup>3</sup> - TWAEV
Ethanol	1000 ppm - STEL	1000 ppm - TWA	1000 ppm - STEL	1000 ppm - STEL	1000 ppm - TWAEV
		1880 mg/m <sup>3</sup> - TWA			1880 mg/m <sup>3</sup> - TWAEV
Propylene glycol monomethyl	N/E	N/E	50 ppm - TWA	50 ppm - TWA	N/E
ether acetate			75 ppm - STEL	270 mg/m <sup>3</sup> - TWA	
Acetone	250 ppm - TWA	500 ppm - TWA	250 ppm - TWA	500 ppm - TWA	500 ppm - TWAEV
	500 ppm - STEL	1200 mg/m <sup>3</sup> - TWA	500 ppm - STEL	750 ppm - STEL	1190 mg/m <sup>3</sup> - TWAEV
		750 ppm - STEL			1000 ppm - STEV
		1800 mg/m <sup>3</sup> - STEL			2380 mg/m <sup>3</sup> - STEV
Toluene	20 ppm - TWA	50 ppm - TWA	20 ppm - TWA	20 ppm - TWA	50 ppm - TWAEV
		188 mg/m³ - TWA	Adverse reproductive		188 mg/m <sup>3</sup> - TWAEV

		Substance may be readily absorbed	effect		Skin absorption can contribute to overall
		through intact skin			exposure.
Isopropyl alcohol	200 ppm - TWA	200 ppm - TWA	200 ppm - TWA	200 ppm - TWA	400 ppm - TWAEV
	400 ppm - STEL	492 mg/m³ - TWA	400 ppm - STEL	400 ppm - STEL	985 mg/m³ - TWAEV
		400 ppm - STEL			500 ppm - STEV
		984 mg/m <sup>3</sup> - STEL			1230 mg/m <sup>3</sup> - STEV
Octane	300 ppm - TWA	300 ppm - TWA	300 ppm - TWA	300 ppm - TWA	300 ppm - TWAEV
		1400 mg/m³ - TWA			1400 mg/m <sup>3</sup> - TWAEV
					375 ppm - STEV
					1750 mg/m <sup>3</sup> - STEV
Heptane	400 ppm - TWA	400 ppm - TWA	400 ppm - TWA	400 ppm - TWA	400 ppm - TWAEV
	500 ppm - STEL	1640 mg/m³ - TWA	500 ppm - STEL	500 ppm - STEL	1640 mg/m <sup>3</sup> - TWAEV
		500 ppm - STEL			500 ppm - STEV
		2050 mg/m <sup>3</sup> - STEL			2050 mg/m <sup>3</sup> - STEV
2-Methoxy-1-propanol acetate	N/E	N/E	20 ppm - TWA	N/E	N/E
			40 ppm - STEL		

#### 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**  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.

## PHYSICAL AND CHEMICAL PROPERTIES

liquid **Appearance** Odor solvent No information available **Odor Threshold** 7.7 - 7.9Density (lbs/gal) 0.92 - 0.95**Specific Gravity** pН No information available Viscosity (cps) No information available Solubility No information available **Water Solubility** No information available **Evaporation Rate** No information available **Vapor Pressure** No information available **Vapor Density** No information available

Wt. % Solids 30 - 40 25 - 35 Vol. % Solids Wt. % Volatiles 60 - 70Vol. % Volatiles 65 - 75 VOC Regulatory Limit (g/L) < 680 **Boiling Point (°F)** 132

Boiling Point (°C) 56

Freezing Point (°F)

No information available

No information available

Flash Point (°F) 39
Flash Point (°C) 4
Flash Point Method PMCC

Flammability (solid, gas)
Upper Explosion Limit
Not applicable
Lower Explosion Limit
Not applicable

Autoignition Temperature (°F)

Autoignition Temperature (°C)

Decomposition Temperature (°F)

Decomposition Temperature (°C)

No 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.

Information on toxicological effects

Symptoms No information available

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

**Eye contact** Severely irritating to eyes. May cause burns. Risk of

serious damage to eyes.

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

contact may defat the skin and produce dermatitis.

Inhalation Harmful by inhalation. High vapor / aerosol concentrations

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: May cause an allergic skin reaction.

Neurological EffectsNo information available.Mutagenic EffectsNo information available.

**Reproductive Effects**May damage fertility or the unborn child.

Developmental EffectsNo information available.Target Organ EffectsNo information available.

STOT - single exposure May cause disorder and damage to the. Respiratory

system. Central nervous system (CNS).

STOT - repeated exposure

System. Central nervous system (CNS).

Causes damage to organs through prolo

Causes damage to organs through prolonged or repeated exposure if inhaled. May cause disorder and damage to the. Liver. Kidney. Spleen. Blood. Central nervous system

(CNS).

Other adverse effects No information available.

Aspiration Hazard

May be harmful if swallowed and enters airways. 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.

Numerical measures of toxicity

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

ATEmix (oral)

ATEmix (dermal)

ATEmix (inhalation-dust/mist)

ATEmix (inhalation-vapor)

8999 mg/kg

10689 mg/kg

53.5 mg/L

84 mg/L

#### Component

n-Butyl acetate

LD50 Oral: 10768 mg/kg (Rat)

LD50 Dermal: > 17600 mg/kg (Rabbit) LC50 Inhalation (Vapor): ppm (Rat, 4 hr.) Sensitization: non-sensitizing (quinea pig)

Isobutyl alcohol

LD50 Oral: 2460 mg/kg (Rat) LD50 Dermal: 3400 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 19200 mg/m<sup>3</sup> (Rat, 4 hr.)

Ethanol

LD50 Oral: mg/kg (Rat)

LC50 Inhalation (Vapor): ppm (Rat, 10 hr.) Propylene glycol monomethyl ether acetate

LD50 Oral: 8532 mg/kg (Rat)

LD50 Dermal: > 5000 mg/kg (Rabbit) LC50 Inhalation (Vapor): > 4345 ppm

Acetone

LD50 Oral: 5800 mg/kg (Rat)

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Toluene

LD50 Oral: 636 mg/kg (Rat)

LD50 Dermal: 14100 µL/kg (Rabbit)

LC50 Inhalation (Vapor): 49000 mg/m³ (Rat, 4 hr.)

Isopropyl alcohol
LD50 Oral: mg/kg (Rat)
LD50 Dermal: mg/kg (Rabbit)
LC50 Inhalation (Vapor): ppm (Rat)

Methyl ethyl ketoxime LD50 Oral: 930 mg/kg (Rat) LD50 Dermal: 200 μL/kg (Rabbit)

LC50 Inhalation (Vapor): > 4.8 mg/L (Rat)

Heptane

LC50 Inhalation (Vapor): 103000 mg/m<sup>3</sup> (Rat, 4 hr.)

2-Methoxy-1-propanol acetate LD50 Dermal: > 5000 mg/kg (Rabbit) LC50 Inhalation (Vapor): > 100 ppm (Rat)

## **Chronic Toxicity**

#### Carcinogenicity

Limited evidence of a carcinogenic effect.

## 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.

#### **Bioaccumulation / Accumulation**

No information available.

## **Mobility in Environmental Media**

No information available.

#### Ozone

No information available

#### Component

#### **Acute Toxicity to Fish**

n-Butyl acetate

LC50: 18 mg/L (Fathead Minnow - 96 hr.)

Acetone

LC50: 8300 (Bluegill - 96 hr.) mg/L

Methyl ethyl ketoxime

LC50: 48 mg/L (Bluegill sunfish - 96 hr.)

#### **Acute Toxicity to Aquatic Invertebrates**

n-Butyl acetate

EC50: 72.8 mg/L (Daphnia magna - 48 hr.)

<u>Acetone</u>

EC50: 12600 mg/L (Daphnia magna - 48 hr.)

Methyl ethyl ketoxime

EC50: 750 mg/L (Daphnia magna - 48 hr.)

## **Acute Toxicity to Aquatic Plants**

n-Butyl acetate

EC50: 674.7 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

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options.

**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 Hazard Class 3

UN-No UN1263
Packing Group II

**Description** UN1263, Paint, 3, II

ICAO / IATA Contact the preparer for further information.

IMDG / IMO Contact the preparer for further information.

## 15. REGULATORY INFORMATION

#### **International Inventories**

**TSCA: United States**Yes - All components are listed or exempt.
Yes - All components are listed or exempt.

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## National Pollutant Release Inventory (NPRI)

#### NPRI Parts 1-4

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

Chemical Name	CAS-No	Weight % (max)	NPRI Parts 1-4
n-Butyl acetate	123-86-4	10 - 30%	Listed
Isobutyl alcohol	78-83-1	7 - 13%	Listed
Ethanol	64-17-5	5 - 10%	Listed
Propylene glycol monomethyl ether	108-65-6	5 - 10%	Listed
acetate			
Acetone	67-64-1	3 - 7%	Listed
Toluene	108-88-3	1 - 5%	Listed
Isopropyl alcohol	67-63-0	1 - 5%	Listed
Octane	111-65-9	0.1 - 0.25%	Listed
Heptane	142-82-5	0.1 - 0.25%	Listed
2-Methoxy-1-propanol acetate	70657-70-4	0.1 - 0.25%	Listed

#### **NPRI Part 5**

This product contains the following NPRI Part 5 Chemicals:

Chemical Name	CAS-No	Weight % (max)	NPRI Part 5
n-Butyl acetate	123-86-4	10 - 30%	Listed
Ethanol	64-17-5	5 - 10%	Listed
Propylene glycol monomethyl ether	108-65-6	5 - 10%	Listed
acetate			
VM&P naphtha	64742-89-8	1 - 5%	Listed
Toluene	108-88-3	1 - 5%	Listed
Isopropyl alcohol	67-63-0	1 - 5%	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

Health: 2\* Flammability: 3 PPE: -HMIS -Reactivity: 1

## **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.

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.

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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/ewh-semt/contaminants/lead-plomb/asked\_questions-questions\_posees-eng.php.

Prepared By Product Stewardship Department

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 855-724-6802

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Reason For Revision Not available

#### **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**