

Revision Date: 28-Aug-2023 Revision Number: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name HP ALIPHATIC URETHANE - WHITE

Product Code HP5000-01FR

Alternate Product Code UF5701

Product Class FINISH COATING

**Color** White

Recommended use Industrial 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 sensitization	Category 1A
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 3

#### Label elements

#### Danger

#### Hazard statements

May cause an allergic skin reaction

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May cause genetic defects

May cause cancer

Suspected of damaging fertility or the unborn child

May cause 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

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

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

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

# **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

### Skin

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

Wash contaminated clothing before reuse

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

#### 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 cool

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

No information available

**CAUTION:** All floor coatings may become slippery when wet. Where non-skid characteristics are desired, use an appropriate anti-slip aggregate.

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 Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Titanium dioxide	13463-67-7	10 - 30%	-	-
2-Heptanone	110-43-0	10 - 30%	-	-
Barium sulfate	7727-43-7	7 - 13%	-	-
n-Butyl acetate	123-86-4	1 - 5%	-	-
Xylene	1330-20-7	1 - 5%	-	-
Ethyl benzene	100-41-4	0.25 - 0.5%	-	-
Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-pip eridinyl) ester	41556-26-7	0.25 - 0.5%	-	-
Silica, crystalline	14808-60-7	0.1 - 0.25%	-	-
2-(Hydroxyethyl)Methacrylate	868-77-9	0.1 - 0.25%	-	-
Trimethylolpropane	77-99-6	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.

**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 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 fleah healt. Vapors may expect that fire

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) 98
Flash Point (°C) 37
Method PMCC

Flammability Limits In Air

Lower flammability limit:No data availableUpper flammability limit: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 protective equipment.

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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.

Methods for Cleaning 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**

Chemical name	ACGIH TLV	Alberta	British Columbia	Ontario	Quebec

T'. ' !' ' !	T TM 0 0 / 0	10 / 2 714/4	10 / 2 714/4	10 / 2 714/4	1 40 / 2 TM/AEN/
Titanium dioxide	TWA: 0.2 mg/m <sup>3</sup>	10 mg/m³ - TWA	10 mg/m <sup>3</sup> - TWA	10 mg/m³ - TWA	10 mg/m <sup>3</sup> - TWAEV
	nanoscale respirable		3 mg/m³ - TWA		
	particulate matter				
	TWA: 2.5 mg/m <sup>3</sup>				
	finescale respirable				
	particulate matter				TIMATI
2-Heptanone	TWA: 50 ppm	50 ppm - TWA	50 ppm - TWA	25 ppm - TWA	50 ppm - TWAEV
		233 mg/m³ - TWA		115 mg/m <sup>3</sup> - TWA	233 mg/m <sup>3</sup> - TWAEV
Barium sulfate	TWA: 5 mg/m <sup>3</sup>	10 mg/m³ - TWA	5 mg/m³ - TWA	5 mg/m³ - TWA	10 mg/m <sup>3</sup> - TWAEV
	inhalable particulate				5 mg/m <sup>3</sup> - TWAEV
	matter, particulate				
	matter containing no				
	asbestos and <1%				
	crystalline silica				
	TWA: 0.5 mg/m³ Ba				
	As Barium soluble				
	compounds				
	[RR-00049-7]				
n-Butyl acetate	STEL: 150 ppm	150 ppm - TWA	20 ppm - TWA	150 ppm - TWA	150 ppm - TWAEV
	TWA: 50 ppm	713 mg/m³ - TWA		200 ppm - STEL	713 mg/m <sup>3</sup> - TWAEV
		200 ppm - STEL			200 ppm - STEV
		950 mg/m <sup>3</sup> - STEL			950 mg/m <sup>3</sup> - STEV
Xylene	TWA: 20 ppm	100 ppm - TWA	100 ppm - TWA	100 ppm - TWA	100 ppm - TWAEV
		434 mg/m <sup>3</sup> - TWA	150 ppm - STEL	150 ppm - STEL	434 mg/m <sup>3</sup> - TWAEV
		150 ppm - STEL			150 ppm - STEV
		651 mg/m <sup>3</sup> - STEL			651 mg/m <sup>3</sup> - STEV
Ethyl benzene	Ototoxicant - potential	100 ppm - TWA	20 ppm - TWA	20 ppm - TWA	100 ppm - TWAEV
-	to cause hearing	434 mg/m <sup>3</sup> - TWA	• •		434 mg/m <sup>3</sup> - TWAEV
	disorders	125 ppm - STEL			125 ppm - STEV
	TWA: 20 ppm	543 mg/m <sup>3</sup> - STEL			543 mg/m <sup>3</sup> - STEV
Silica, crystalline	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.10 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
• •	respirable particulate	3			
	matter				

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

**Hygiene Measures** 

**Engineering Measures** 

Personal Protective Equipment
Eye/Face Protection

Skin Protection Respiratory Protection Ensure adequate ventilation, especially in confined areas.

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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.

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash

thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance** liquid Odor solvent

**Odor Threshold** No information available

11.1 - 11.5 Density (lbs./gal) 1.33 - 1.38 **Specific Gravity** 

Ha No information available Viscosity (cps) No information available Solubility(ies) No information available Water solubility No information available

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

Wt. % Solids 75 - 85 60 - 70 Vol. % Solids Wt. % Volatiles 15 - 2530 - 40 Vol. % Volatiles VOC Regulatory Limit (g/L) < 250 **Boiling Point (°F)** 223 **Boiling Point (°C)** 

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

Flash point (°F) 98 Flash Point (°C) 37 Method **PMCC** 

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

No information available **Autoignition Temperature (°F) Autoignition Temperature (°C)** No information available **Decomposition Temperature (°F)** No information available **Decomposition Temperature (°C)** No information available No information available **Partition coefficient** 

## 10. STABILITY AND REACTIVITY

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Reactivity Not Applicable

Stable under normal conditions. Hazardous polymerisation **Chemical Stability** 

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.

Thermal decomposition can lead to release of irritating **Hazardous Decomposition Products** 

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

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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 contact** Contact with eyes may cause irritation.

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

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 Possible risk of impaired fertility. Possible risk of harm to

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.

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

exposure if inhaled, Causes damage to organs through

prolonged or repeated exposure.

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) 7718 mg/kg
ATEmix (inhalation-dust/mist) 8.6 mg/l

### **ATEmix (inhalation-vapor)**

65.7 mg/l

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### **Component Information**

Caution - This mixture contains a substance not yet fully tested

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
2-Heptanone 110-43-0	= 1600 mg/kg (Rat)	= 12.6 mL/kg ( Rabbit ) = 12600 µL/kg ( Rabbit )	>16.7 mg/L
Barium sulfate 7727-43-7	= 307000 mg/kg ( Rat )	-	-
n-Butyl acetate 123-86-4	= 10768 mg/kg(Rat)	> 17600 mg/kg(Rabbit)	-
Xylene 1330-20-7	= 3500 mg/kg (Rat)	> 4350 mg/kg ( Rabbit )	= 29.08 mg/L (Rat) 4 h
Ethyl benzene 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg ( Rabbit )	= 17.4 mg/L (Rat)4 h
Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidi nyl) ester 41556-26-7	= 2615 mg/kg(Rat)	-	-
2-(Hydroxyethyl)Methacrylate 868-77-9	= 5050 mg/kg (Rat)	> 3000 mg/kg ( Rabbit )	-
Trimethylolpropane 77-99-6	= 14100 mg/kg(Rat) = 14000 mg/kg(Rat)	-	> 0.29 mg/L (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		
	2B - Possible Human Carcinogen	
Ethyl benzene		
	1 - Human Carcinogen	Known
Silica, crystalline	•	

- 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**

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### **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**

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.)

n-Butyl acetate

LC50: 18 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**

n-Butyl acetate

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

Ethyl benzene

EC50: 1.8 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.)

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 Packing Group III

**Description** UN1263, Paint, 3, III

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.

# 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
 1 - 5%
 Listed

 Ethyl benzene
 100-41-4
 0.25 - 0.5%
 Listed

#### **NPRI Part 5**

This product contains the following NPRI Part 5 Chemicals:

 Chemical name
 CAS No
 Weight-%
 NPRI Part 5

 n-Butyl acetate
 123-86-4
 1 - 5%
 Listed

 Xylene
 1330-20-7
 1 - 5%
 Listed

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### **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**

- 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.

Prepared By Product Stewardship Department

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

800-225-5554

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#### **Disclaimer**

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