

Revision Date: 20-Oct-2021

**Revision Number:** 4

1. PRODUCT AND COMPANY IDENTIFICATION

# Product Name

Product Code Alternate Product Code Product Class Color Recommended use Restrictions on use

Manufactured For Benjamin Moore & Co., Limited 8775 Keele Street Concord ON L4K 2N1 Phone: 1-800-361-5898 www.lenmar-coatings.ca

# Manufacturer

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 Phone: 1-866-708-9180 www.lenmar-coatings.com

# MEGAVAR PLUS HIGH-SOLIDS WATER WHITE CONVERSION VARNISH GLOSS 1M-6309FR

HL2319 FINISH COATING Clear Clear coating No information available

> 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 1
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 2

# Label elements

Danger

#### Hazard statements

Causes skin irritation Causes serious eye damage May cause an allergic skin reaction May cause cancer Suspected of damaging fertility or the unborn child 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/gas/mist/vapors/spray

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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

#### **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

Immediately call a POISON CENTER or doctor/physician

### 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

#### 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

**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)
Isobutyl alcohol	78-83-1	10 - 30%	-	-
Ethanol	64-17-5	7 - 13%	-	-
n-Butyl acetate	123-86-4	5 - 10%	-	-
Xylene	1330-20-7	3 - 7%	-	-
Toluene	108-88-3	1 - 5%	-	-
Propylene glycol monomethyl ether acetate	108-65-6	1 - 5%	-	-
Isopropyl alcohol	67-63-0	1 - 5%	-	-
Ethyl benzene	100-41-4	1 - 5%	-	-
Formaldehyde	50-00-0	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	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 minutes.
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.

3 - High 4 - Severe

Protection Of First-Aiders	Use personal protective equipment.	
Most Important Symptoms/Effects	May cause allergic skin reaction.	
Notes To Physician	Treat symptomatically.	
5. FIRE-FIGHT	ING 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) Flash Point (°C) Method	58 14 PMCC	
Flammability Limits In Air		
Lower flammability limit: Upper flammability limit:	Not available Not available	
NFPA Health: 2 Flammability: 3 NFPA Legend 0 - Not Hazardous 1 - Slightly 2 - Moderate	Instability: 0 Special: Not Applicable	

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.
Environmental precautions	See 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 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
Isobutyl alcohol	TWA: 50 ppm	50 ppm - TWA 152 mg/m³ - TWA	50 ppm - TWA	50 ppm - TWA	50 ppm - TWAEV 152 mg/m <sup>3</sup> - TWAEV
Ethanol	STEL: 1000 ppm	1000 ppm - TWA 1880 mg/m³ - TWA	1000 ppm - STEL	1000 ppm - STEL	1000 ppm - TWAEV 1880 mg/m <sup>3</sup> - TWAEV
n-Butyl acetate	STEL: 150 ppm TWA: 50 ppm	150 ppm - TWA 713 mg/m <sup>3</sup> - TWA 200 ppm - STEL 950 mg/m <sup>3</sup> - STEL	20 ppm - TWA	150 ppm - TWA 200 ppm - STEL	150 ppm - TWAEV 713 mg/m <sup>3</sup> - TWAEV 200 ppm - STEV 950 mg/m <sup>3</sup> - STEV
Xylene	STEL: 150 ppm TWA: 100 ppm	100 ppm - TWA 434 mg/m <sup>3</sup> - TWA 150 ppm - STEL 651 mg/m <sup>3</sup> - STEL	100 ppm - TWA 150 ppm - STEL	100 ppm - TWA 150 ppm - STEL	100 ppm - TWAEV 434 mg/m <sup>3</sup> - TWAEV 150 ppm - STEV 651 mg/m <sup>3</sup> - STEV
Toluene	TWA: 20 ppm	50 ppm - TWA 188 mg/m <sup>3</sup> - TWA Substance may be readily absorbed through intact skin	20 ppm - TWA Adverse reproductive effect	20 ppm - TWA	50 ppm - TWAEV 188 mg/m <sup>3</sup> - TWAEV Skin absorption can contribute to overall exposure.
Propylene glycol monomethyl ether acetate	N/E	N/E	50 ppm - TWA 75 ppm - STEL	50 ppm - TWA 270 mg/m³ - TWA	N/E
Isopropyl alcohol	STEL: 400 ppm TWA: 200 ppm	200 ppm - TWA 492 mg/m <sup>3</sup> - TWA 400 ppm - STEL 984 mg/m <sup>3</sup> - STEL	200 ppm - TWA 400 ppm - STEL	200 ppm - TWA 400 ppm - STEL	400 ppm - TWAEV 985 mg/m <sup>3</sup> - TWAEV 500 ppm - STEV 1230 mg/m <sup>3</sup> - STEV
Ethyl benzene	TWA: 20 ppm	100 ppm - TWA 434 mg/m <sup>3</sup> - TWA 125 ppm - STEL 543 mg/m <sup>3</sup> - STEL	20 ppm - TWA	20 ppm - TWA	100 ppm - TWAEV 434 mg/m <sup>3</sup> - TWAEV 125 ppm - STEV 543 mg/m <sup>3</sup> - STEV
Formaldehyde	STEL: 0.3 ppm TWA: 0.1 ppm	0.75 ppm - TWA 0.9 mg/m <sup>3</sup> - TWA 1 ppm - Ceiling 1.3 mg/m <sup>3</sup> - Ceiling	0.3 ppm - TWA 1 ppm - Ceiling Dermal Sensitizer, Respiratory Sensitizer	1 ppm - STEL 1.5 ppm - Ceiling	2 ppm - Ceiling 3 mg/m <sup>3</sup> - Ceiling

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**

Personal Protective Equipmen	it
Eye/Face Protection	

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

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

### **Hygiene Measures**

thoroughly after handling.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor **Odor Threshold** Density (lbs/gal) **Specific Gravity** pН Viscosity (cps) Solubility(ies) Water solubility **Evaporation Rate** Vapor pressure Vapor density Wt. % Solids Vol. % Solids Wt. % Volatiles Vol. % Volatiles VOC Regulatory Limit (g/L) **Boiling Point (°F) Boiling Point (°C)** Freezing point (°F) Freezing Point (°C) Flash point (°F) Flash Point (°C) Method Flammability (solid, gas) Upper flammability limit: Lower flammability limit: Autoignition Temperature (°F) Autoignition Temperature (°C) Decomposition Temperature (°F) **Decomposition Temperature (°C)** Partition coefficient

liquid solvent No information available 8.0 - 8.3 0.95 - 1.00 No information available 45 - 55 35 - 45 45 - 55 55 - 65 < 550 167 75 No information available No information available 58 14 PMCC Not applicable Not applicable Not applicable No information available No information available No information available No information available 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 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** 

### <u>Product Information</u> 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 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 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 Effects	No information available.
Mutagenic Effects	No information available.
Reproductive Effects	Possible risk of impaired fertility. Possible risk of harm to the unborn child.
Developmental Effects	No information available.
Target organ effects	liver, Respiratory system, Eyes, Skin, Central nervous system, blood, Reproductive System.
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.
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)	6309 mg/kg
ATEmix (dermal)	8170 mg/kg
ATEmix (inhalation-dust/mist)	21.3 mg/L
ATEmix (inhalation-vapor)	4004 mg/L

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isobutyl alcohol 78-83-1	= 2460 mg/kg (Rat)	= 3400 mg/kg (Rabbit)	> 6.5 mg/L (Rat)4 h
Ethanol 64-17-5	= 7060 mg/kg(Rat)	-	= 124.7 mg/L (Rat)4 h
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
Toluene 108-88-3	= 2600 mg/kg(Rat)	= 12000 mg/kg (Rabbit)	-
Propylene glycol monomethyl ether acetate 108-65-6	= 8532 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Isopropyl alcohol 67-63-0	= 1870 mg/kg(Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m <sup>3</sup> (Rat) 4 h
Ethyl benzene 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat)4 h
Formaldehyde 50-00-0	= 100 mg/kg(Rat)	= 270 mg/kg (Rabbit)	= 0.578 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	
Ethyl benzene	_	
	1 - Human Carcinogen	Known Human Carcinogen
Formaldehyde	_	_

• Possible Cancer Hazard. Contains Formaldehyde which may cause cancer based on animal data. Risk of cancer depends on duration and level of exposure.

#### 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.

### **Bioaccumulation**

There is no data for this product.

# Mobility in Environmental Media

No information available.

# <u>Ozone</u>

No information available

# **Component Information**

#### Acute Toxicity to Fish

<u>n-Butyl acetate</u> LC50: 18 mg/L (Fathead Minnow - 96 hr.) <u>Xylene</u> LC50: 13.5 mg/L (Rainbow Trout - 96 hr.) <u>Ethyl benzene</u> 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

<u>n-Butyl acetate</u> EC50: 674.7 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.) <u>Ethyl benzene</u> 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.

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 Hazard class UN-No. Packing Group Description PAINT 3 UN1263 II 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.
DSL: Canada	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
Isobutyl alcohol	78-83-1	10 - 30%	Listed
Xylene	1330-20-7	3 - 7%	Listed
Toluene	108-88-3	1 - 5%	Listed
Isopropyl alcohol	67-63-0	1 - 5%	Listed
Ethyl benzene	100-41-4	1 - 5%	Listed
Formaldehyde	50-00-0	0.1 - 0.25%	Listed

# **NPRI Part 5**

This product contains the following NPRI Part 5 Chemicals:

Chemical name	CAS No.	Weight-%	NPRI Part 5
Ethanol	64-17-5	7 - 13%	Listed
n-Butyl acetate	123-86-4	5 - 10%	Listed
Xylene	1330-20-7	3 - 7%	Listed
Toluene	108-88-3	1 - 5%	Listed
Propylene glycol monomethyl ether	108-65-6	1 - 5%	Listed
acetate			
Isopropyl alcohol	67-63-0	1 - 5%	Listed
Formaldehyde	50-00-0	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: 2*	Flammability: 3	Reactivity: 0	PPE: -
<ul> <li>HMIS Legend</li> <li>0 - Minimal Hazard</li> <li>1 - Slight Hazard</li> <li>2 - Moderate Hazard</li> <li>3 - Serious Hazard</li> <li>4 - Severe Hazard</li> <li>* - Chronic Hazard</li> <li>X - Consult your supervisor or S.O.P. for "Special" handling instructions.</li> <li>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.</li> </ul>				
Caution: HMIS®	ratings are based on a 0-4	4 rating scale, with 0 representing	g minimal hazards or risk	s, 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 guestions-questions posees-eng.php.

#### **Prepared By**

**Product Stewardship Department** Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 800-225-5554

Revision Date:	20-Oct-2021
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**