

Revision Date: 08-Jun-2017

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

ULTRAMAX PLUS WATER WHITE PRECATALYZED LACQUER

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 lenmar-coatings.ca

Manufacturer

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 Phone: 800-225-5554 lenmar-coatings.com SEMI-GLOSS 1D-356FR HL4100 LACQUER Clear

Clear coating

No information available

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
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 2
Physical hazard not otherwise classified	Category 1

Label elements

Danger

Hazard statements

Causes skin irritation Causes serious eye damage Suspected of causing cancer Suspected of damaging 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 Reactive flammable material



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 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

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 physician

Skin

If skin irritation 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)
Ethanol	64-17-5 10 - 30%	
n-Butyl acetate	123-86-4	10 - 30%
Acetone	67-64-1	7 - 13%
cellulose, nitrate	9004-70-0	5 - 10%
Isopropyl alcohol	67-63-0	3 - 7%
Isobutyl alcohol	78-83-1	1 - 5%
Propylene glycol monomethyl ether acetate	108-65-6	1 - 5%
2-Butoxyethanol	111-76-2	1 - 5%
Toluene	108-88-3	1 - 5%
Xylene	1330-20-7	1 - 5%
Ethyl benzene	100-41-4	0.25 - 0.5%

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 removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. Call a physician immediately.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.
Protection Of First-Aiders	Use personal protective equipment.
Most Important Symptoms/Effects	No information available.

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) Flash Point (°C) Flash Point Method	29 -2 PMCC	
Flammability Limits In Air		
Lower Explosion Limit Upper Explosion Limit	Not available Not available	
NFPA Health: 2 Flammability: 3 I	nstability: 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.
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 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
Ethanol	1000 ppm - STEL	1000 ppm - TWA	1000 ppm - STEL	1000 ppm - STEL	1000 ppm - TWAEV
		1880 mg/m ³ - TWA			1880 mg/m ³ - TWAEV
n-Butyl acetate	150 ppm - TWA	150 ppm - TWA	20 ppm - TWA	150 ppm - TWA	150 ppm - TWAEV
	200 ppm - STEL	713 mg/m ³ - TWA		200 ppm - STEL	713 mg/m ³ - TWAEV
		200 ppm - STEL			200 ppm - STEV
		950 mg/m ³ - STEL			950 mg/m ³ - STEV
Acetone	250 ppm - TWA	500 ppm - TWA	250 ppm - TWA	500 ppm - TWA	500 ppm - TWAEV
	500 ppm - STEL	1200 mg/m ³ - TWA	500 ppm - STEL	750 ppm - STEL	1190 mg/m ³ - TWAEV
		750 ppm - STEL			1000 ppm - STEV
		1800 mg/m ³ - STEL			2380 mg/m ³ - STEV
Isopropyl alcohol	200 ppm - TWA	200 ppm - TWA	200 ppm - TWA	200 ppm - TWA	400 ppm - TWAEV
	400 ppm - STEL	492 mg/m ³ - TWA	400 ppm - STEL	400 ppm - STEL	985 mg/m ³ - TWAEV
		400 ppm - STEL			500 ppm - STEV
		984 mg/m ³ - STEL			1230 mg/m ³ - STEV
Isobutyl alcohol	50 ppm - TWA	50 ppm - TWA	50 ppm - TWA	50 ppm - TWA	50 ppm - TWAEV
		152 mg/m ³ - TWA			152 mg/m ³ - TWAEV
Propylene glycol monomethyl	N/E	N/E	50 ppm - TWA	50 ppm - TWA	N/E
ether acetate			75 ppm - STEL	270 mg/m³ - TWA	
2-Butoxyethanol	20 ppm - TWA	20 ppm - TWA	20 ppm - TWA	20 ppm - TWA	20 ppm - TWAEV
		97 mg/m ³ - TWA			97 mg/m ³ - TWAEV
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 ³ - TWAEV
		Substance may be	effect		Skin absorption can
		readily absorbed			contribute to overall
		through intact skin			exposure.
Xylene	100 ppm - TWA	100 ppm - TWA	100 ppm - TWA	100 ppm - TWA	100 ppm - TWAEV
	150 ppm - STEL	434 mg/m ³ - TWA	150 ppm - STEL	150 ppm - STEL	434 mg/m ³ - TWAEV
		150 ppm - STEL			150 ppm - STEV
		651 mg/m ³ - STEL			651 mg/m ³ - STEV
Ethyl benzene	20 ppm - TWA	100 ppm - TWA	20 ppm - TWA	20 ppm - TWA	100 ppm - TWAEV
		434 mg/m ³ - TWA			434 mg/m ³ - TWAEV
		125 ppm - STEL			125 ppm - STEV
		543 mg/m ³ - STEL			543 mg/m ³ - STEV

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 Equipment Eye/Face Protection Skin Protection Respiratory Protection Ensure adequate ventilation, especially in confined areas.

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 Odor **Odor Threshold** Density (lbs/gal) Specific Gravity bН Viscosity (cps) Solubility 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) Flash Point Method Flammability (solid, gas) **Upper Explosion Limit** Lower Explosion Limit Autoignition Temperature (°F) Autoignition Temperature (°C) Decomposition Temperature (°F) **Decomposition Temperature (°C)** Partition Coefficient (n-octanol/water)

liquid solvent No information available 7.65 - 7.75 0.91 - 0.93 No information available 25 - 35 20 - 30 65 - 75 70 - 80 < 680 132 56 No information available No information available 29 -2 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

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 eff	ects from short and long-term exposure
Eye contact	Severely irritating to eyes. May cause burns. Risk of
Skin contact	serious damage to eyes. May cause skin irritation and/or dermatitis. Prolonged skin
Inhalation	contact may defat the skin and produce dermatitis. Harmful by inhalation. High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs and may
Ingestion	cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects. 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: Neurological Effects	No information available. 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 STOT - single exposure	No information available. May cause disorder and damage to the. Respiratory
STOT - single exposure	system. Central nervous system (CNS).
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure if inhaled. May cause disorder and damage to the. Liver. Kidney. Spleen. Blood. Causes damage to organs through prolonged or repeated exposure if swallowed. Causes damage to organs through prolonged or repeated exposure in contact with skin. Causes damage to organs through prolonged or repeated exposure.
Other adverse effects Aspiration Hazard	No information available. 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)	4879 mg/kg
ATEmix (dermal)	7993 mg/kg
ATEmix (inhalation-dust/mist)	47.7 mg/L
ATEmix (inhalation-vapor)	421 mg/L

Component

Ethanol LD50 Oral: mg/kg (Rat) LC50 Inhalation (Vapor): ppm (Rat, 10 hr.) 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 (guinea pig) Acetone LD50 Oral: 5800 mg/kg (Rat) Isopropyl alcohol LD50 Oral: mg/kg (Rat) LD50 Dermal: mg/kg (Rabbit) LC50 Inhalation (Vapor): ppm (Rat) Isobutyl alcohol LD50 Oral: 2460 mg/kg (Rat) LD50 Dermal: 3400 mg/kg (Rabbit) LC50 Inhalation (Vapor): 19200 mg/m³ (Rat, 4 hr.) Propylene glycol monomethyl ether acetate LD50 Oral: 8532 mg/kg (Rat) LD50 Dermal: > 5000 mg/kg (Rabbit) LC50 Inhalation (Vapor): > 4345 ppm 2-Butoxyethanol LD50 Oral: 470 mg/kg (Rat) LD50 Dermal: 220 mg/kg (Rabbit) LC50 Inhalation (Vapor): 450 ppm (Rat, 4 hr.) Toluene LD50 Oral: 636 mg/kg (Rat) LD50 Dermal: 14100 µL/kg (Rabbit) LC50 Inhalation (Vapor): 49000 mg/m³ (Rat, 4 hr.) Xylene LD50 Oral: 4300 mg/kg (Rat) LD50 Dermal: > 1700 mg/kg (Rabbit) LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.) Ethyl benzene LD50 Oral: mg/kg (Rat) LD50 Dermal: > mg/kg (Rabbit) LC50 Inhalation (Vapor): mg/m³ (Rat, 2 hr.)

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		

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 / Accumulation

No information available.

Mobility in Environmental Media

No information available.

<u>Ozone</u>

No information available

Component

Acute Toxicity to Fish

<u>n-Butyl acetate</u> LC50: 18 mg/L (Fathead Minnow - 96 hr.) <u>Acetone</u> LC50: 8300 (Bluegill - 96 hr.) mg/L <u>2-Butoxyethanol</u> LC50: 1490 mg/L (Bluegill sunfish - 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

<u>n-Butyl acetate</u> EC50: 72.8 mg/L (Daphnia magna - 48 hr.) <u>Acetone</u> EC50: 12600 mg/L (Daphnia magna - 48 hr.) <u>Ethyl benzene</u> 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.) 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.

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 ClassPaint
3
UN1263
II
UN1263, Packing Group
DescriptionICAO / IATAContact the preparer for further information.IMDG / IMOContact 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 % (max)	NPRI Parts 1-4
Ethanol	64-17-5	10 - 30%	Listed
n-Butyl acetate	123-86-4	10 - 30%	Listed
Acetone	67-64-1	7 - 13%	Listed
Isopropyl alcohol	67-63-0	3 - 7%	Listed
Isobutyl alcohol	78-83-1	1 - 5%	Listed
Propylene glycol monomethyl ether	108-65-6	1 - 5%	Listed
acetate			
2-Butoxyethanol	111-76-2	1 - 5%	Listed
Toluene	108-88-3	1 - 5%	Listed
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	<u>Weight % (max)</u>	NPRI Part 5
Ethanol	64-17-5	10 - 30%	Listed
n-Butyl acetate	123-86-4	10 - 30%	Listed
Isopropyl alcohol	67-63-0	3 - 7%	Listed
Propylene glycol monomethyl ether	108-65-6	1 - 5%	Listed
acetate			
2-Butoxyethanol	111-76-2	1 - 5%	Listed
Toluene	108-88-3	1 - 5%	Listed
Xylene	1330-20-7	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					
HMIS HMIS Legenc 0 - Minimal Haz 1 - Slight Hazar 2 - Moderate Ha	zard rd	Flammability: 3	Reactivity: 0	PPE: -	

- 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 @

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