

Revision Date: 21-Apr-2021

Revision Number: 2

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

ULTRALAQ PRECATALYZED WATER WHITE LACQUER SEMI-GLOSS 1D-356FR

HL4100 LACQUER 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
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/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep container tightly closed Ground/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 advice/attention **Eves**

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 occurs: Get medical advice/attention

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

Inhalation

IF 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

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)
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%	-	-

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 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.

Protection Of First-Aiders

Notes To Physician

Most Important Symptoms/Effects

Never give anything by mouth to an unconscious	person.
Consult a physician.	

Use personal protective equipment.

No information available.

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) Method	29.0 -2 PMCC	
Flammability Limits In Air		
Lower flammability limit: Upper flammability limit:	Not available Not 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.
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
Ethanol	STEL: 1000 ppm	1000 ppm - TWA 1880 mg/m³ - TWA	1000 ppm - STEL	1000 ppm - STEL	1000 ppm - TWAEV 1880 mg/m ³ - TWAEV
n-Butyl acetate	STEL: 150 ppm TWA: 50 ppm	150 ppm - TWA 713 mg/m ³ - TWA 200 ppm - STEL 950 mg/m ³ - STEL	20 ppm - TWA	150 ppm - TWA 200 ppm - STEL	150 ppm - TWAEV 713 mg/m ³ - TWAEV 200 ppm - STEV 950 mg/m ³ - STEV
Acetone	STEL: 500 ppm TWA: 250 ppm	500 ppm - TWA 1200 mg/m ³ - TWA 750 ppm - STEL 1800 mg/m ³ - STEL	250 ppm - TWA 500 ppm - STEL	250 ppm - TWA 500 ppm - STEL	500 ppm - TWAEV 1190 mg/m ³ - TWAEV 1000 ppm - STEV 2380 mg/m ³ - STEV
Isopropyl alcohol	STEL: 400 ppm TWA: 200 ppm	200 ppm - TWA 492 mg/m ³ - TWA 400 ppm - STEL 984 mg/m ³ - STEL	200 ppm - TWA 400 ppm - STEL	200 ppm - TWA 400 ppm - STEL	400 ppm - TWAEV 985 mg/m ³ - TWAEV 500 ppm - STEV 1230 mg/m ³ - STEV
Isobutyl alcohol	TWA: 50 ppm	50 ppm - TWA 152 mg/m³ - TWA	50 ppm - TWA	50 ppm - TWA	50 ppm - TWAEV 152 mg/m ³ - TWAEV
Propylene glycol monomethyl ether acetate	N/E	N/E	50 ppm - TWA 75 ppm - STEL	50 ppm - TWA 270 mg/m³ - TWA	N/E
2-Butoxyethanol	TWA: 20 ppm	20 ppm - TWA 97 mg/m³ - TWA	20 ppm - TWA	20 ppm - TWA	20 ppm - TWAEV 97 mg/m ³ - TWAEV
Toluene	TWA: 20 ppm	50 ppm - TWA 188 mg/m ³ - TWA Substance may be readily absorbed through intact skin	20 ppm - TWA Adverse reproductive effect	20 ppm - TWA	50 ppm - TWAEV 188 mg/m ³ - TWAEV Skin absorption can contribute to overall exposure.
Xylene	STEL: 150 ppm TWA: 100 ppm	100 ppm - TWA 434 mg/m ³ - TWA 150 ppm - STEL 651 mg/m ³ - STEL	100 ppm - TWA 150 ppm - STEL	100 ppm - TWA 150 ppm - STEL	100 ppm - TWAEV 434 mg/m ³ - TWAEV 150 ppm - STEV 651 mg/m ³ - STEV
Ethyl benzene	TWA: 20 ppm	100 ppm - TWA 434 mg/m ³ - TWA 125 ppm - STEL 543 mg/m ³ - STEL	20 ppm - TWA	20 ppm - TWA	100 ppm - TWAEV 434 mg/m ³ - TWAEV 125 ppm - STEV 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. 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.

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** 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 7.65 - 7.75 0.91 - 0.93No information available No information available 25 - 35 20 - 30 65 - 75 70 - 80 < 680 136 58 No information available No information available 29.0 -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

Chemical Stability

Not Applicable

Stable under normal conditions. Hazardous polymerisation

does not occur.

Keep away from open flames, hot surfaces, static electricity and sources of ignition. Sparks. Elevated temperature.

Incompatible with strong acids and bases and strong oxidizing agents.

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

Acute Toxicity Product Information Eye contact, skin contact and inhalation.

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 Severely irritating to eyes. May cause burns. Risk of Eye contact serious damage to eyes. May cause skin irritation and/or dermatitis. Prolonged skin Skin contact contact may defat the skin and produce dermatitis. Harmful by inhalation. High vapor / aerosol concentrations Inhalation are irritating to the eves, 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. No information available. Sensitization No information available. **Neurological Effects 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 No information available.

Conditions to avoid

Incompatible Materials

Hazardous Decomposition Products

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, May cause disorder and damage to the, liver, kidney, spleen, blood, 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)	4876 mg/kg
ATEmix (dermal)	7993 mg/kg
ATEmix (inhalation-dust/mist)	94.8 mg/L
ATEmix (inhalation-vapor)	420.8 mg/L

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
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)	-
Acetone 67-64-1	= 5800 mg/kg(Rat)	> 15700 mg/kg (Rabbit)	= 50100 mg/m ³ (Rat) 8 h
cellulose, nitrate 9004-70-0	5 g/kg (Rat)	-	-
Isopropyl alcohol 67-63-0	= 1870 mg/kg(Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h
Isobutyl alcohol 78-83-1	= 2460 mg/kg(Rat)	= 3400 mg/kg (Rabbit)	> 6.5 mg/L (Rat)4 h
Propylene glycol monomethyl ether acetate 108-65-6	= 8532 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
2-Butoxyethanol 111-76-2	= 1300 mg/kg(Rat)	> 2000 mg/kg (Rabbit)	> 4.9 mg/L (Rat) 3H
Toluene 108-88-3	= 2600 mg/kg (Rat)	= 12000 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

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

There is no data for this product.

Mobility in Environmental Media

No information available.

Ozone

No information available

Component Information

Acute Toxicity to Fish

n-Butyl acetate 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.) <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

IMDG / IMO

Contact the preparer for further information.

Contact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

TSCA: United States DSL: Canada

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
Isopropyl alcohol	67-63-0	3 - 7%	Listed
Isobutyl alcohol	78-83-1	1 - 5%	Listed
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.	Weight-%	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 -	Health: 2*	Flammability: 3	Reactivity: 1	PPE: -	
Note: The PPE rati	zard rd rd ırd supervisor or S.O.P.			oloyees from the hazards the material will	

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
Revision Date:	21-Apr-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