



# LENMAR<sup>®</sup>

## SAFETY DATA SHEET

Revision Date: 30-Nov-2018

Revision Number: 2

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** LACQUER RETARDER  
**Product Code** 1A-114FR  
**Alternate Product Code** HL9200  
**Product Class** LACQUER  
**Color** Clear  
**Recommended use** Solvent mixture  
**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: 1-866-708-9180  
lenmar-coatings.com

**Emergency Telephone**

CANUTEC: 613-996-6666

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous by the Hazardous Products Regulations (HPR: SOR/2015-17)

|  |             |
|--|-------------|
| Acute toxicity - Oral                              | Category 4  |
| Acute toxicity - Dermal                            | Category 4  |
| Skin corrosion/irritation                          | Category 2  |
| Serious eye damage/eye irritation                  | Category 2A |
| Carcinogenicity                                    | Category 2  |
| Specific target organ toxicity (single exposure)   | Category 3  |
| Specific target organ toxicity (repeated exposure) | Category 2  |
| Aspiration toxicity                                | Category 1  |
| Flammable liquids                                  | Category 3  |

**Label elements**

**Danger****Hazard statements**

Harmful if swallowed  
Harmful in contact with skin  
Causes skin irritation  
Causes serious eye irritation  
Suspected of causing cancer  
May cause respiratory irritation. May cause drowsiness or dizziness  
May cause damage to organs through prolonged or repeated exposure  
May be fatal if swallowed and enters airways  
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  
Do not eat, drink or smoke when using this product  
Wear eye/face protection  
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

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing  
If eye irritation persists: Get medical advice/attention

**Skin**

Call a POISON CENTER or doctor/physician if you feel unwell  
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

**Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Rinse mouth

**Fire**

In case of fire: Use CO<sub>2</sub>, 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-% |
|-----------------|-----------|----------|
| 2-Butoxyethanol | 111-76-2  | 30 - 60% |
| n-Butyl acetate | 123-86-4  | 10 - 30% |
| Xylene          | 1330-20-7 | 10 - 30% |
| Ethyl benzene   | 100-41-4  | 3 - 7%   |

### 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 symptoms persist, call a physician.

**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

|  |   |
|--|---|
| <b>Flammable Properties</b>                                  | Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause flash fire.  |
| <b>Suitable Extinguishing Media</b>                          | Foam, dry powder or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  |
| <b>Protective Equipment And Precautions For Firefighters</b> | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.  |
| <b>Hazardous combustion products</b>                         | Burning may result in carbon dioxide, carbon monoxide and other combustion products of varying composition which may be toxic and/or irritating.  |
| <b>Specific Hazards Arising From The Chemical</b>            | 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. |
| <b>Sensitivity To Mechanical Impact</b>                      | No  |
| <b>Sensitivity To Static Discharge</b>                       | Yes   |
| <b>Flash Point Data</b>                                      |   |
| Flash Point (°F)   | 83.0  |
| Flash Point (°C)   | 28.3  |
| Method   | PMCC  |
| <b>Flammability Limits In Air</b>                            |   |
| Lower flammability limit:                                    | Not available   |
| Upper flammability limit:                                    | Not available   |

**NFPA**    **Health:** 2                      **Flammability:** 3                      **Instability:** 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](http://www.nfpa.org).*

## 6. ACCIDENTAL RELEASE MEASURES

|                                  |   |
|----------------------------------|---|
| <b>Personal Precautions</b>      | 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.  |
| <b>Other Information</b>         | 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. |
| <b>Environmental precautions</b> | See Section 12 for additional Ecological Information.   |
| <b>Methods for Cleaning Up</b>   | 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

|                               |   |
|-------------------------------|---|
| <b>Handling</b>               | <p>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.</p> <p>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.</p> |
| <b>Storage</b>                | 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.   |
| <b>Incompatible Materials</b> | 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   |
|-----------------|---------------------------------|--|---------------------------------|---------------------------------|--|
| 2-Butoxyethanol | 20 ppm - TWA                    | 20 ppm - TWA<br>97 mg/m <sup>3</sup> - TWA   | 20 ppm - TWA                    | 20 ppm - TWA                    | 20 ppm - TWAEV<br>97 mg/m <sup>3</sup> - TWAEV   |
| n-Butyl acetate | 150 ppm - TWA<br>200 ppm - STEL | 150 ppm - TWA<br>713 mg/m <sup>3</sup> - TWA<br>200 ppm - STEL<br>950 mg/m <sup>3</sup> - STEL | 20 ppm - TWA                    | 150 ppm - TWA<br>200 ppm - STEL | 150 ppm - TWAEV<br>713 mg/m <sup>3</sup> - TWAEV<br>200 ppm - STEV<br>950 mg/m <sup>3</sup> - STEV |
| Xylene          | 100 ppm - TWA<br>150 ppm - STEL | 100 ppm - TWA<br>434 mg/m <sup>3</sup> - TWA<br>150 ppm - STEL<br>651 mg/m <sup>3</sup> - STEL | 100 ppm - TWA<br>150 ppm - STEL | 100 ppm - TWA<br>150 ppm - STEL | 100 ppm - TWAEV<br>434 mg/m <sup>3</sup> - TWAEV<br>150 ppm - STEV<br>651 mg/m <sup>3</sup> - STEV |
| Ethyl benzene   | 20 ppm - TWA                    | 100 ppm - TWA<br>434 mg/m <sup>3</sup> - TWA<br>125 ppm - STEL<br>543 mg/m <sup>3</sup> - STEL | 20 ppm - TWA                    | 20 ppm - TWA                    | 100 ppm - TWAEV<br>434 mg/m <sup>3</sup> - TWAEV<br>125 ppm - STEV<br>543 mg/m <sup>3</sup> - 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**

Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

**Eye/Face Protection**

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

**Skin Protection**

Protective gloves and impervious clothing.

**Respiratory Protection**

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**

|                                    |                          |
|------------------------------------|--------------------------|
| <b>Appearance</b>                  | liquid                   |
| <b>Odor</b>                        | solvent                  |
| <b>Odor Threshold</b>              | No information available |
| <b>Density (lbs/gal)</b>           | 7.35 - 7.45              |
| <b>Specific Gravity</b>            | 0.88 - 0.90              |
| <b>pH</b>                          | No information available |
| <b>Viscosity (cps)</b>             | No information available |
| <b>Solubility(ies)</b>             | No information available |
| <b>Water solubility</b>            | No information available |
| <b>Evaporation Rate</b>            | No information available |
| <b>Vapor pressure @20 °C (kPa)</b> | No information available |
| <b>Vapor density</b>               | No information available |
| <b>Wt. % Solids</b>                | 0 - 10                   |
| <b>Vol. % Solids</b>               | 0 - 10                   |
| <b>Wt. % Volatiles</b>             | 90 - 100                 |

|                                |                          |
|--------------------------------|--------------------------|
| Vol. % Volatiles               | 90 - 100                 |
| VOC Regulatory Limit (g/L)     | < 950                    |
| Boiling Point (°F)             | 257                      |
| Boiling Point (°C)             | 125                      |
| Freezing Point (°F)            | No information available |
| Freezing Point (°C)            | No information available |
| Flash Point (°F)               | 83.0                     |
| Flash Point (°C)               | 28.3                     |
| Method                         | PMCC                     |
| Flammability (solid, gas)      | Not applicable           |
| Upper flammability limit:      | Not applicable           |
| Lower flammability limit:      | Not applicable           |
| Autoignition Temperature (°F)  | No information available |
| Autoignition Temperature (°C)  | No information available |
| Decomposition Temperature (°F) | No information available |
| Decomposition Temperature (°C) | No information available |
| Partition coefficient          | 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.

#### **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**

|                                 |   |
|---------------------------------|---|
| <b>Eye contact</b>              | Contact with eyes may cause irritation. Vapor may cause irritation.   |
| <b>Skin contact</b>             | May cause skin irritation and/or dermatitis. Prolonged skin contact may defat the skin and produce dermatitis.  |
| <b>Inhalation</b>               | 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.  |
| <b>Ingestion</b>                | 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.  |
| <b>Sensitization</b>            | No information available.   |
| <b>Neurological Effects</b>     | No information available.   |
| <b>Mutagenic Effects</b>        | No information available.   |
| <b>Reproductive Effects</b>     | No information available.   |
| <b>Developmental Effects</b>    | No information available.   |
| <b>Target organ effects</b>     | No information available.   |
| <b>STOT - single exposure</b>   | May cause disorder and damage to the. Respiratory system. Central nervous system.   |
| <b>STOT - repeated exposure</b> | Causes damage to organs through prolonged or repeated exposure if inhaled. Causes damage to organs through prolonged or repeated exposure if swallowed. Causes damage to organs through prolonged or repeated exposure in contact with skin. May cause disorder and damage to the. blood. Causes damage to organs through prolonged or repeated exposure. |
| <b>Other adverse effects</b>    | No information available.   |
| <b>Aspiration Hazard</b>        | 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

|                                      |            |
|--------------------------------------|------------|
| <b>ATEmix (oral)</b>                 | 905 mg/kg  |
| <b>ATEmix (dermal)</b>               | 1538 mg/kg |
| <b>ATEmix (inhalation-dust/mist)</b> | 7.7 mg/L   |
| <b>ATEmix (inhalation-vapor)</b>     | 21.7 mg/L  |

**Component Information**2-Butoxyethanol

LD50 Oral: 470 mg/kg (Rat)

LD50 Dermal: 220 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 450 ppm (Rat, 4 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)  
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/m<sup>3</sup> (Rat, 2 hr.)

**Chronic Toxicity**

**Carcinogenicity**

*The information below indicates whether each agency has listed any ingredient as a carcinogen.:*

| Chemical name | IARC                           | NTP |
|---------------|--------------------------------|-----|
| Ethyl benzene | 2B - Possible Human Carcinogen |     |

**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**

2-Butoxyethanol

LC50: 1490 mg/L (Bluegill sunfish - 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.

**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  
 III  
 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.

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:

| <u>Chemical name</u> | <u>CAS No.</u> | <u>Weight-%</u> | <u>NPRI Parts 1- 4</u> |
|----------------------|----------------|-----------------|------------------------|
| 2-Butoxyethanol      | 111-76-2       | 30 - 60%        | Listed                 |
| Xylene               | 1330-20-7      | 10 - 30%        | Listed                 |
| Ethyl benzene        | 100-41-4       | 3 - 7%          | Listed                 |

#### NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

| <u>Chemical name</u> | <u>CAS No.</u> | <u>Weight-%</u> | <u>NPRI Part 5</u> |
|----------------------|----------------|-----------------|--------------------|
| 2-Butoxyethanol      | 111-76-2       | 30 - 60%        | Listed             |
| n-Butyl acetate      | 123-86-4       | 10 - 30%        | Listed             |
| Xylene               | 1330-20-7      | 10 - 30%        | 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: -

#### **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 @ [http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked\\_questions-questions\\_posees-eng.php](http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php).

**Prepared By** Product Stewardship Department  
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**Revision Date:** 30-Nov-2018  
**Reason for revision** Not available

**Disclaimer**

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**END OF SAFETY DATA SHEET**