



# LENMAR<sup>®</sup>

## SAFETY DATA SHEET

Revision Date: 01-Feb-2019

Revision Number: 4

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** MEGAVAR WATER WHITE CONVERSION VARNISH DULL RUBBED  
**Product Code** 1M-4302  
**Alternate Product Code** HL0800, HL0843  
**Product Class** VARNISH  
**Color** Clear  
**Recommended use** Clear coating  
**Restrictions on use** No information available

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

**Emergency Telephone**  
CHEMTREC (US): 800-424-9300  
CHEMTREC (outside US): (703)-527-3887

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|  |             |
|--|-------------|
| Skin corrosion/irritation                          | Category 2  |
| Serious eye damage/eye irritation                  | Category 1  |
| Skin sensitization                                 | Category 1  |
| Carcinogenicity                                    | Category 1A |
| Reproductive toxicity                              | Category 1B |
| Specific target organ toxicity (single exposure)   | Category 3  |
| 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  
May damage 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



**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  
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

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

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### 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

**Hazards not otherwise classified (HNOC)**

Not applicable

**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-%  |
|------------------------------|------------|-----------|
| n-Butyl acetate              | 123-86-4   | 20 - 25   |
| Isobutyl alcohol             | 78-83-1    | 5 - 10    |
| Ethanol                      | 64-17-5    | 5 - 10    |
| Acetone                      | 67-64-1    | 5 - 10    |
| VM&P naphtha                 | 64742-89-8 | 1 - 5     |
| Toluene                      | 108-88-3   | 1 - 5     |
| Isopropyl alcohol            | 67-63-0    | 1 - 5     |
| Silica, amorphous            | 7631-86-9  | 1 - 5     |
| Methyl ethyl ketoxime        | 96-29-7    | 0.1 - 0.5 |
| Octane                       | 111-65-9   | 0.1 - 0.5 |
| Heptane                      | 142-82-5   | 0.1 - 0.5 |
| 2-Methoxy-1-propanol acetate | 70657-70-4 | 0.1 - 0.5 |

**4. FIRST AID MEASURES**

**Description of first aid measures**

|  |   |
|--|---|
| <b>General Advice</b>                  | If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.   |
| <b>Eye Contact</b>                     | 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.   |
| <b>Skin Contact</b>                    | 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. |
| <b>Inhalation</b>                      | Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. Call a physician immediately.  |
| <b>Ingestion</b>                       | 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.                                       |
| <b>Protection Of First-Aiders</b>      | Use personal protective equipment.  |
| <b>Most Important Symptoms/Effects</b> | May cause allergic skin reaction.   |

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)   | 39.0  |
| Flash Point (°C)   | 3.9   |
| Method   | PMCC  |
| <b>Flammability Limits In Air</b>                            |   |
| Lower flammability limit:                                    | Not available   |
| Upper flammability limit:                                    | 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](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.   |
| <b>Technical measures/Precautions</b> | <p>Ensure adequate ventilation. Use only where airflow will keep vapors from building up in or near the work area in adjoining rooms. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing and disposal of flammable liquids.</p> <p>Dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. All equipment should be non-sparking and explosion proof. Use explosion proof electrical equipment for ventilation, lighting and material handling.</p>   |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

| Chemical name   | ACGIH TLV     | OSHA PEL      |
|-----------------|---------------|---------------|
| n-Butyl acetate | 150 ppm - TWA | 150 ppm - TWA |

|                   |                                 |  |
|-------------------|---------------------------------|--|
|                   | 200 ppm - STEL                  | 710 mg/m <sup>3</sup> - TWA                    |
| Isobutyl alcohol  | 50 ppm - TWA                    | 100 ppm - TWA<br>300 mg/m <sup>3</sup> - TWA   |
| Ethanol           | STEL: 1000 ppm                  | 1000 ppm - TWA<br>1900 mg/m <sup>3</sup> - TWA |
| Acetone           | 250 ppm - TWA<br>500 ppm - STEL | 1000 ppm - TWA<br>2400 mg/m <sup>3</sup> - TWA |
| Toluene           | 20 ppm - TWA                    | 200 ppm - TWA<br>300 ppm - Ceiling             |
| Isopropyl alcohol | 200 ppm - TWA<br>400 ppm - STEL | 400 ppm - TWA<br>980 mg/m <sup>3</sup> - TWA   |
| Silica, amorphous | N/E                             | 20 mppcf - TWA                                 |
| Octane            | 300 ppm - TWA                   | 500 ppm - TWA<br>2350 mg/m <sup>3</sup> - TWA  |
| Heptane           | 400 ppm - TWA<br>500 ppm - STEL | 500 ppm - TWA<br>2000 mg/m <sup>3</sup> - TWA  |

**Legend**

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits  
 OSHA - Occupational Safety & Health Administration Exposure Limits  
 N/E - Not Established

**Appropriate engineering controls**

**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**

Long sleeved clothing. Protective gloves.

**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**

**Appearance**

liquid

**Odor**

solvent

**Odor Threshold**

No information available

**Density (lbs/gal)**

7.7 - 8.1

**Specific Gravity**

0.93 - 0.97

**pH**

No information available

**Viscosity (cps)**

No information available

**Solubility(ies)**

No information available

**Water solubility**

No information available

**Evaporation Rate**

No information available

**Vapor pressure @20 °C (kPa)**

No information available

**Vapor density**

No information available

|                                |                          |
|--------------------------------|--------------------------|
| Wt. % Solids                   | 35 - 45                  |
| Vol. % Solids                  | 25 - 35                  |
| Wt. % Volatiles                | 55 - 65                  |
| Vol. % Volatiles               | 65 - 75                  |
| VOC Regulatory Limit (g/L)     | <680                     |
| Boiling Point (°F)             | 136                      |
| Boiling Point (°C)             | 58                       |
| Freezing Point (°F)            | No information available |
| Freezing Point (°C)            | No information available |
| Flash Point (°F)               | 39.0                     |
| Flash Point (°C)               | 3.9                      |
| Method                         | PMCC                     |
| Flammability (solid, gas)      | Not applicable           |
| Upper flammability limit:      | No information available |
| Lower flammability limit:      | No information available |
| 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                         | No data available   |
| 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**

**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.  
**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.  
**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.  
**Sensitization** May cause an allergic skin reaction  
**Neurological Effects** No information available.  
**Mutagenic Effects** No information available.  
**Reproductive Effects** May damage fertility or the unborn child.  
**Developmental Effects** No information available.  
**Target organ effects** No information available.  
**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, Central nervous system.  
**STOT - single exposure** May cause disorder and damage to the respiratory system, Central nervous system.  
**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)** 8920 mg/kg  
**ATEmix (dermal)** 9914 mg/kg  
**ATEmix (inhalation-dust/mist)** 60.8 mg/L  
**ATEmix (inhalation-vapor)** 85.6 mg/L

**Component Information**

| Chemical name               | Oral LD50             | Dermal LD50              | Inhalation LC50                       |
|-----------------------------|-----------------------|--------------------------|---------------------------------------|
| n-Butyl acetate<br>123-86-4 | = 10768 mg/kg ( Rat ) | > 17600 mg/kg ( Rabbit ) | -                                     |
| Isobutyl alcohol<br>78-83-1 | = 2460 mg/kg ( Rat )  | = 3400 mg/kg ( Rabbit )  | > 6.5 mg/L ( Rat ) 4 h                |
| Ethanol<br>64-17-5          | = 7060 mg/kg ( Rat )  | -                        | = 124.7 mg/L ( Rat ) 4 h              |
| Acetone<br>67-64-1          | = 5800 mg/kg ( Rat )  | -                        | = 50100 mg/m <sup>3</sup> ( Rat ) 8 h |
| VM&P naphtha<br>64742-89-8  | -                     | = 3000 mg/kg ( Rabbit )  | -                                     |



|                                  |                      |                              |   |
|----------------------------------|----------------------|------------------------------|---|
| Toluene<br>108-88-3              | = 2600 mg/kg ( Rat ) | = 12000 mg/kg ( Rabbit )     | = 12.5 mg/L ( Rat ) 4 h                                       |
| Isopropyl alcohol<br>67-63-0     | = 1870 mg/kg ( Rat ) | = 4059 mg/kg ( Rabbit )      | = 72600 mg/m <sup>3</sup> ( Rat ) 4 h                         |
| Silica, amorphous<br>7631-86-9   | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit )      | > 2.2 mg/L ( Rat ) 1 h  |
| Methyl ethyl ketoxime<br>96-29-7 | = 930 mg/kg ( Rat )  | 1000 - 1800 mg/kg ( Rabbit ) | > 4800 mg/m <sup>3</sup> ( Rat ) 4 h                          |
| Octane<br>111-65-9               | -                    | -                            | = 118 g/m <sup>3</sup> ( Rat ) 4 h = 25260 ppm<br>( Rat ) 4 h |
| Heptane<br>142-82-5              | -                    | = 3000 mg/kg ( Rabbit )      | = 103 g/m <sup>3</sup> ( Rat ) 4 h                            |

Component

n-Butyl acetate  
123-86-4 ( 20 - 25 )

Sensitization

non-sensitizing ( guinea pig)

**Carcinogenicity**

*Limited evidence of a carcinogenic effect.*

**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**

Not applicable

**Component Information**

**Acute Toxicity to Fish**

n-Butyl acetate

LC50: 18 mg/L (Fathead Minnow - 96 hr.)

Acetone

LC50: 8300 (Bluegill - 96 hr.) mg/L

Methyl ethyl ketoxime

LC50: 48 mg/L (Bluegill sunfish - 96 hr.)

**Acute Toxicity to Aquatic Invertebrates**

n-Butyl acetate

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

Acetone

EC50: 12600 mg/L (Daphnia magna - 48 hr.)

Methyl ethyl ketoxime

EC50: 750 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.)

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**

Dispose of in accordance with federal, state, 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

**DOT**

|                      |                      |
|----------------------|----------------------|
| Proper Shipping Name | PAINT                |
| Hazard class         | 3                    |
| UN-No.               | UN1263               |
| Packing Group        | II                   |
| Description          | 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.

**Federal Regulations**

**SARA 311/312 hazardous categorization**

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire hazard                       | Yes |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| <u>Chemical name</u> | <u>CAS No.</u> | <u>Weight-%</u> | <u>CERCLA/SARA 313<br/>(de minimis concentration)</u> |
|----------------------|----------------|-----------------|---|
| Toluene              | 108-88-3       | 1 - 5           | 1.0   |
| Isopropyl alcohol    | 67-63-0        | 1 - 5           | 1.0   |

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following HAPs:

| <u>Chemical name</u> | <u>CAS No.</u> | <u>Weight-%</u> | <u>Hazardous Air Pollutant<br/>(HAP)<br/>Listed</u> |
|----------------------|----------------|-----------------|---|
| Toluene              | 108-88-3       | 1 - 5           | Listed  |

**US State Regulations**

**California Proposition 65**



**WARNING:** Cancer and Reproductive Harm– [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov)

**State Right-to-Know**

| <u>Chemical name</u> | <u>Massachusetts</u> | <u>New Jersey</u> | <u>Pennsylvania</u> |
|----------------------|----------------------|-------------------|---------------------|
| n-Butyl acetate      | X                    | X                 | X                   |
| Isobutyl alcohol     | X                    | X                 | X                   |
| Ethanol              | X                    | X                 | X                   |
| Acetone              | X                    | X                 | X                   |
| Toluene              | X                    | X                 | X                   |
| Isopropyl alcohol    | X                    | X                 | X                   |
| Silica, amorphous    | X                    | X                 | X                   |
| cellulose, nitrate   | X                    | X                 | X                   |
| 2-Butoxyethanol      | X                    | X                 | X                   |

**Legend**

X - Listed

**16. OTHER INFORMATION**

