



# LENMAR<sup>®</sup>

## SAFETY DATA SHEET

Revision Date: 27-Mar-2015

Revision Number: 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** LENMAR DURALAQ HIGH SOLIDS CLEAR 2185 NC LACQUER  
**Product Code** FLAT  
**Alternate Product Code** 1LL-641  
**Product Class** TK0100  
**Color** LACQUER  
**Recommended use** Clear  
**Restrictions on use** Paint  
No information available

**Manufacturer** Benjamin Moore & Co.  
101 Paragon Drive  
Montvale, NJ 07645  
Phone: 800-225-5554  
lenmar-coatings.com

**Emergency Telephone Number(s)**  
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)

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

#### Label elements

**Danger**

**Hazard statements**

Harmful if swallowed  
Causes skin irritation  
Causes serious eye irritation  
Suspected of causing cancer  
May damage fertility or the unborn child  
Causes damage to organs  
May cause damage to organs through prolonged or repeated exposure  
May be fatal if swallowed and enters airways  
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  
Do not eat, drink or smoke when using this product  
Wear eye/face protection  
Do not breathe dust/fume/mist/vapors/spray  
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

**Precautionary Statements - Response**

If exposed call a POISON CENTER or physician

**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 attention

**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

**Ingestion**

If swallowed immediately call a POISON CENTER or 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 cool

**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

### 3. COMPOSITION INFORMATION ON COMPONENTS

Chemical Name	CAS-No	Weight % (max)
VM&P naphtha	64742-89-8	25
Toluene	108-88-3	15
n-Butyl acetate	123-86-4	10
Butyl benzyl phthalate	85-68-7	10
Isobutyl acetate	110-19-0	10
Xylene	1330-20-7	5
Ethyl acetate	141-78-6	5
n-AmylAcetate	628-63-7	5
Methyl alcohol	67-56-1	5
2-Butoxyethanol	111-76-2	5
Acetone	67-64-1	5
Isopropyl alcohol	67-63-0	5
Ethyl benzene	100-41-4	5
Silicon dioxide, wax coated	112926-00-8	5

### 4. FIRST AID MEASURES

**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>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)	10
Flash Point (°C)	-12
Flash Point Method	PMCC
<b>Flammability Limits In Air</b>	
Lower Explosion Limit	Not available
Upper Explosion 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.
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**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. Pick up and transfer to properly labeled containers. 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** No information available

**Technical measures/Precautions** 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.

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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits

Chemical Name	ACGIH	OSHA
VM&P naphtha	N/E	N/E
Toluene	20 ppm - TWA	200 ppm - TWA 300 ppm - Ceiling
n-Butyl acetate	150 ppm - TWA 200 ppm - STEL	150 ppm - TWA 710 mg/m <sup>3</sup> - TWA
Butyl benzyl phthalate	N/E	N/E
Isobutyl acetate	150 ppm - TWA	150 ppm - TWA 700 mg/m <sup>3</sup> - TWA

Chemical Name	ACGIH	OSHA
Xylene	100 ppm - TWA 150 ppm - STEL	100 ppm - TWA 435 mg/m <sup>3</sup> - TWA
Ethyl acetate	400 ppm - TWA	1400 mg/m <sup>3</sup> - TWA 400 ppm - TWA
n-AmylAcetate	50 ppm - TWA 100 ppm - STEL	100 ppm - TWA 525 mg/m <sup>3</sup> - TWA
Methyl alcohol	200 ppm - TWA 250 ppm - STEL Skin	200 ppm - TWA 260 mg/m <sup>3</sup> - TWA
2-Butoxyethanol	20 ppm - TWA	50 ppm - TWA 240 mg/m <sup>3</sup> - TWA prevent or reduce skin absorption
Acetone	500 ppm - TWA 750 ppm - STEL	1000 ppm - TWA 2400 mg/m <sup>3</sup> - TWA
Isopropyl alcohol	200 ppm - TWA 400 ppm - STEL	400 ppm - TWA 980 mg/m <sup>3</sup> - TWA
Ethyl benzene	20 ppm - TWA	100 ppm - TWA 435 mg/m <sup>3</sup> - TWA
Silicon dioxide, wax coated	N/E	- (80)/(%) SiO <sub>2</sub> mg/m <sup>3</sup> TWA 20 mppcf - TWA

**Appropriate engineering controls**

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

**Eye/Face Protection**

Safety glasses with side-shields

**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**

<b>Appearance</b>	liquid
<b>Odor</b>	solvent
<b>Odor Threshold</b>	No information available
<b>Density (lbs/gal)</b>	7.65 - 7.75
<b>Specific Gravity</b>	0.91 - 0.93
<b>pH</b>	No information available
<b>Viscosity (cps)</b>	No information available
<b>Solubility</b>	No information available
<b>Water Solubility</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Vapor Pressure</b>	No information available
<b>Vapor Density</b>	No information available
<b>Wt. % Solids</b>	25 - 35

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Vol. % Solids	20 - 30
Wt. % Volatiles	65 - 75
Vol. % Volatiles	70 - 80
VOC Regulatory Limit (g/L)	< 680
Boiling Point (°F)	132
Boiling Point (°C)	56
Freezing Point (°F)	No information available
Freezing Point (°C)	No information available
Flash Point (°F)	10
Flash Point (°C)	-12
Flash Point Method	PMCC
Flammability (solid, gas)	Not available
Upper Explosion Limit	Not available
Lower Explosion Limit	Not 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 (n-octanol/water)	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

### Information on likely routes of exposure

#### 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.

Inhalation	No information available
Eye contact	No information available
Skin contact	No information available

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**Ingestion** No information available

**Acute Toxicity**  
**Product Information** No information available

**Information on toxicological effects**

**Symptoms** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization:** Not available  
**Mutagenic Effects** Not available  
**Reproductive Effects** No information available.

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 1479 mg/kg  
**ATEmix (dermal)** 4530 mg/kg  
**ATEmix (inhalation-dust/mist)** 6.1 mg/L  
**ATEmix (inhalation-vapor)** 5127 mg/L

**Acute Toxicity**  
**Component**

Toluene

LD50 Oral: 636 mg/kg (Rat)  
LD50 Dermal: 14100 µL/kg (Rabbit)  
LC50 Inhalation (Vapor): 49000 mg/m<sup>3</sup> (Rat, 4 hr.)

n-Butyl acetate

LD50 Oral: 10768 mg/kg (Rat)  
LD50 Dermal: > 17600 mg/kg (Rabbit)  
LC50 Inhalation (Vapor): 390 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 acetate

LD50 Oral: 5620 mg/kg (Rat)  
LD50 Dermal: > 20 mL/kg (Rabbit)  
LC50 Inhalation (Vapor): 200000 mg/m<sup>3</sup> (Rat)

Methyl alcohol

LD50 Oral: 5600 mg/kg (Rat)  
LD50 Dermal: 15800 mg/kg (Rabbit)  
LC50 Inhalation (Vapor): 64000 ppm (Rat, 4 hr.)



2-Butoxyethanol

LD50 Oral: 470 mg/kg (Rat)  
LD50 Dermal: 220 mg/kg (Rabbit)  
LC50 Inhalation (Vapor): 450 ppm (Rat, 4 hr.)

Acetone

LD50 Oral: 5800 mg/kg (Rat)

Isopropyl alcohol

LD50 Oral: 5,000-5,045 mg/kg (Rat)  
LD50 Dermal: 12,800 mg/kg (Rabbit)  
LC50 Inhalation (Vapor): 16,000 ppm (Rat)

Ethyl benzene

LD50 Oral: 3500 mg/kg (Rat)  
LD50 Dermal: > 5000 mg/kg (Rabbit)  
LC50 Inhalation (Vapor): 55000 mg/m<sup>3</sup> (Rat, 2 hr.)

Silicon dioxide, wax coated

LD50 Oral: > 3300 mg/kg (Rat)  
LD50 Dermal: > 5000 mg/kg (Rat)

**Carcinogenicity**

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

Chemical Name	IARC	NTP	OSHA Carcinogen
Ethyl benzene	2B - Possible Human Carcinogen		Listed

**Legend**

IARC - International Agency for Research on Cancer  
NTP - National Toxicity Program  
OSHA - Occupational Safety & Health Administration

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity Effects**

**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.

**Ozone**

Not Applicable

**Component**

**Acute Toxicity to Fish**

n-Butyl acetate

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

Xylene

LC50: 13.5 mg/L (Rainbow Trout - 96 hr.)

2-Butoxyethanol

LC50: 1490 mg/L (Bluegill sunfish - 96 hr.)

Acetone

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

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.)

Acetone

EC50: 12600 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

**DOT**

<b>Proper Shipping Name</b>	Paint (Mixture)
<b>Hazard Class</b>	3
<b>UN-No</b>	UN1263
<b>Packing Group</b>	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 % (max)</u>
Toluene	108-88-3	15
Xylene	1330-20-7	5
Methyl alcohol	67-56-1	5
2-Butoxyethanol	111-76-2	5
Isopropyl alcohol	67-63-0	5
Ethyl benzene	100-41-4	5

**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 % (max)</u>
Toluene	108-88-3	15
Xylene	1330-20-7	5
Methyl alcohol	67-56-1	5
2-Butoxyethanol	111-76-2	5
Ethyl benzene	100-41-4	5

**State Regulations**

**California Proposition 65**

*This product may contain small amounts of materials known to the state of California to cause cancer or reproductive harm.*

**State Right-to-Know**

<u>Chemical Name</u>	<u>Massachusetts</u>	<u>New Jersey</u>	<u>Pennsylvania</u>
Toluene	X	X	X
n-Butyl acetate	X	X	X
Butyl benzyl phthalate	X	X	X
Isobutyl acetate	X	X	X
Xylene	X	X	X
Ethyl acetate	X	X	X
n-AmylAcetate	X	X	X
Methyl alcohol	X	X	X
2-Butoxyethanol	X	X	X
Acetone	X	X	X
Isopropyl alcohol	X	X	X
Ethyl benzene	X	X	X
Silicon dioxide, wax coated	X	X	X

**Legend**

X - Listed

**16. OTHER INFORMATION**

**HMIS**      **Health: 2\***      **Flammability: 3**      **Reactivity: 0**      **PPE: -**

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**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 contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

**Prepared By** Product Stewardship Department  
Benjamin Moore & Co.  
101 Paragon Drive  
Montvale, NJ 07645  
855-724-6802

**Revision Date:** 27-Mar-2015  
**Revision Summary** 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**