

Revision Date: 27-Apr-2021 Revision Number: 6

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DURALAQ PIGMENTED NITROCELLULOSE LACQUER

**TOPCOATS GLOSS** 

Product Code 1A-02
Alternate Product Code TE3801

Alternate Product Code TE3801
Product Class LACQUER
Color White
Recommended use Paint

Restrictions on use No information available

Manufacturer

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 Phone: 1-866-708-9180

Phone: 1-866-708-9180 www.lenmar-coatings.com

## **Emergency Telephone**

CHEMTREC: +1 703-741-5970 / 1-800-424-9300 +1 703-527-3887 (outside US & Canada)

## 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
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 2

#### 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 damage to organs through prolonged or repeated exposure

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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 breathe dust/fume/gas/mist/vapors/spray

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

#### **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 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

#### Ingestion

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

Do NOT induce vomiting

#### 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 cool

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Not applicable

#### Other information

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No information available

## 3. COMPOSITION INFORMATION ON COMPONENTS

Chemical name	CAS No.	Weight-%
n-Butyl acetate	123-86-4	15 - 20
Acetone	67-64-1	10 - 15
Titanium dioxide	13463-67-7	10 - 15
cellulose, nitrate	9004-70-0	5 - 10
VM&P naphtha	64742-89-8	5 - 10
Toluene	108-88-3	5 - 10
Isopropyl alcohol	67-63-0	1 - 5
2-Pentanone, 4-methyl-	108-10-1	1 - 5
n-Butyl alcohol	71-36-3	1 - 5
Isobutyl alcohol	78-83-1	1 - 5
Soybean oil, epoxidized	8013-07-8	1 - 5
Ethanol	64-17-5	1 - 5
Octane	111-65-9	0.1 - 0.5
Heptane	142-82-5	0.1 - 0.5
Ethyl benzene	100-41-4	0.1 - 0.5

# 4. FIRST AID MEASURES

#### **Description of first aid measures**

General Advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in

attendance.

**Eye Contact** Immediate medical attention is required. Immediately flush with plenty of water.

After initial flushing, remove any contact lenses and continue flushing for at least

15 minutes.

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes. If skin irritation persists, call a physician.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

If not breathing, give artificial respiration. Call a physician immediately.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Do not induce

vomiting without medical advice. Never give anything by mouth to an unconscious

person. Consult a physician.

**Protection Of First-Aiders** Use personal protective equipment.

Most Important Symptoms/Effects No information available.

Notes To Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Flammable Properties Vapors may travel considerable distance to a source of

ignition and flash back. Vapors may cause flash fire.

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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) 26
Flash Point (°C) -3
Method PMCC

Flammability Limits In Air

Lower flammability limit:Not availableUpper 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.

## 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,

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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.

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 TLV	OSHA PEL
n-Butyl acetate	STEL: 150 ppm	150 ppm - TWA
	TWA: 50 ppm	710 mg/m <sup>3</sup> - TWA
Acetone	STEL: 500 ppm	1000 ppm - TWA
	TWA: 250 ppm	2400 mg/m <sup>3</sup> - TWA
Titanium dioxide	TWA: 10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> - TWA

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Toluene	TWA: 20 ppm	200 ppm - TWA 300 ppm - Ceiling
Isopropyl alcohol	STEL: 400 ppm TWA: 200 ppm	400 ppm - TWA 980 mg/m³ - TWA
2-Pentanone, 4-methyl-	STEL: 75 ppm TWA: 20 ppm	100 ppm - TWA 410 mg/m³ - TWA
n-Butyl alcohol	TWA: 20 ppm	100 ppm - TWA 300 mg/m³ - TWA
Isobutyl alcohol	TWA: 50 ppm	100 ppm - TWA 300 mg/m³ - TWA
Ethanol	STEL: 1000 ppm	1000 ppm - TWA 1900 mg/m³ - TWA
Octane	TWA: 300 ppm	500 ppm - TWA 2350 mg/m³ - TWA
Heptane	STEL: 500 ppm TWA: 400 ppm	500 ppm - TWA 2000 mg/m³ - TWA
Ethyl benzene	TWA: 20 ppm	100 ppm - TWA 435 mg/m³ - 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)
 8.4 - 8.5

 Specific Gravity
 1.00 - 1.02

pHNo information availableViscosity (cps)No information availableSolubility(ies)No information availableWater solubilityNo information availableEvaporation RateNo information availableVapor pressureNo information available

Vapor density No information available

 Wt. % Solids
 30 - 40

 Vol. % Solids
 15 - 25

 Wt. % Volatiles
 60 - 70

 Vol. % Volatiles
 75 - 85

 VOC Regulatory Limit (g/L)
 < 680</td>

 Boiling Point (°F)
 133

 Boiling Point (°C)
 56

Freezing point (°F)

No information available

Freezing Point (°C)

No information available

Flash point (°F) 26
Flash Point (°C) -3
Method PMCC

Flammability (solid, gas) Not applicable

Upper flammability limit:

Lower flammability limit:

Autoignition Temperature (°F)

Autoignition Temperature (°C)

Decomposition Temperature (°F)

Decomposition Temperature (°C)

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

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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.

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#### 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.

SensitizationNo information availableNeurological EffectsNo information availableMutagenic EffectsNo 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.

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) 5154 mg/kg
ATEmix (dermal) 8012 mg/kg
ATEmix (inhalation-dust/mist) 38.7 mg/L
ATEmix (inhalation-vapor) 34.8 mg/L

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
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 <sup>3</sup> (Rat) 8 h
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
cellulose, nitrate	5 g/kg (Rat)	-	-

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9004-70-0			
VM&P naphtha 64742-89-8	-	= 3000 mg/kg ( Rabbit )	-
Toluene 108-88-3	= 2600 mg/kg (Rat)	= 12000 mg/kg ( Rabbit )	-
Isopropyl alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg ( Rabbit )	= 72600 mg/m³ (Rat) 4 h
2-Pentanone, 4-methyl- 108-10-1	= 2080 mg/kg (Rat)	= 3000 mg/kg ( Rabbit )	2000 - 4000 ppm (Rat) 4 h
n-Butyl alcohol 71-36-3	= 790 mg/kg (Rat)	3400 mg/kg (Rabbit)	> 8000 ppm (Rat) 4 h
Isobutyl alcohol 78-83-1	= 2460 mg/kg (Rat)	= 3400 mg/kg ( Rabbit )	> 6.5 mg/L (Rat) 4 h
Soybean oil, epoxidized 8013-07-8	= 40 g/kg (Rat)	> 20 mL/kg(Rabbit)	-
Ethanol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Octane 111-65-9	-	-	> 23.36 mg/L (Rat) 4 h = 118 g/m³ (Rat) 4 h = 25260 ppm ( Rat) 4 h
Heptane 142-82-5	-	= 3000 mg/kg ( Rabbit )	= 103 g/m <sup>3</sup> (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	OSHA
	2B - Possible Human		Listed
Titanium dioxide	Carcinogen		
	2B - Possible Human		Listed
2-Pentanone, 4-methyl-	Carcinogen		
	2B - Possible Human		Listed
Ethyl benzene	Carcinogen		

<sup>•</sup> Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes:

#### 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

<sup>&</sup>quot;No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

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#### **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

Titanium dioxide

LC50: > 1000 mg/L (Fathead Minnow - 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.)

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, 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

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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** 

UN1263, PAINT, 3, II Description

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 Nο

#### **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:

Chemical name	CAS No.	Weight-%	CERCLA/SARA 313 (de minimis concentration)
Toluene	108-88-3	5 - 10	1.0
Isopropyl alcohol	67-63-0	1 - 5	1.0
2-Pentanone, 4-methyl-	108-10-1	1 - 5	1.0
n-Butyl alcohol	71-36-3	1 - 5	1.0
Ethyl benzene	100-41-4	0.1 - 0.5	0.1

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

This product contains the following HAPs:

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Chemical name	CAS No.	Weight-%	Hazardous Air Pollutant (HAP)
Toluene	108-88-3	5 - 10	Listed
2-Pentanone, 4-methyl-	108-10-1	1 - 5	Listed
Ethyl benzene	100-41-4	0.1 - 0.5	Listed

# **US State Regulations**

#### **California Proposition 65**

MARNING: Cancer and Reproductive Harm– www.P65warnings.ca.gov

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania
n-Butyl acetate	X	Χ	X
Acetone	X	Χ	X
Titanium dioxide	X	X	X
cellulose, nitrate	X	Χ	X
Toluene	X	X	X
Isopropyl alcohol	X	X	X
2-Pentanone, 4-methyl-	X	Χ	X
n-Butyl alcohol	X	X	X
Isobutyl alcohol	X	Χ	X
Ethanol	X	Х	X

## Legend

X - Listed

## 16. OTHER INFORMATION

Health: 2\* Flammability: 3 HMIS -Reactivity: 1 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.

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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.

Prepared By Product Stewardship Department

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 800-225-5554

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#### 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**