



LENMAR®

SAFETY DATA SHEET

Revision Date: 30-May-2018

Revision Number: 3

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|------------------------|--------------------------|
| Product Name | FLATTENING ADDITIVE |
| Product Code | 1B-500 |
| Alternate Product Code | TE5700 |
| Product Class | SOLVENT THINNED PAINT |
| Color | All |
| Recommended use | Chemical additive |
| 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 |
| Reproductive toxicity | Category 1B |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Aspiration toxicity | Category 1 |
| Flammable liquids | Category 2 |

Label elements

Danger

Hazard statements

Causes skin irritation
May damage fertility or the unborn child
May cause drowsiness or dizziness
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 little or no odor

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Skin

If skin irritation occurs: Get medical advice/attention

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

Wash contaminated clothing before reuse

Inhalation

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

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 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

3. COMPOSITION INFORMATION ON COMPONENTS

| Chemical name | CAS No. | Weight-% |
|------------------------|-----------|----------|
| Toluene | 108-88-3 | 40 |
| n-Butyl acetate | 123-86-4 | 40 |
| Butyl benzyl phthalate | 85-68-7 | 15 |
| Silica, amorphous | 7631-86-9 | 10 |

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 | 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

| | |
|--|--|
| Flammable Properties | Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause flash fire. |
| Suitable Extinguishing Media | Foam, dry powder or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Protective Equipment And Precautions For Firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |
| Hazardous combustion products | Burning may result in carbon dioxide, carbon monoxide and other combustion products of varying composition which may be toxic and/or irritating. |
| Specific Hazards Arising From The Chemical | Flammable. Flash back possible over considerable |

distance. Keep product and empty container away from heat and sources of ignition. Closed containers may rupture if exposed to fire or extreme heat. Thermal decomposition can lead to release of irritating gases and vapors.

Sensitivity To Mechanical Impact No

Sensitivity To Static Discharge Yes

Flash Point Data

Flash Point (°F) 54
Flash Point (°C) 12
Method PMCC

Flammability Limits In Air

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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Remove all sources of ignition. Take precautions to prevent flashback. Ground and bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Other Information Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions See Section 12 for additional Ecological Information.

Methods for Cleaning Up Dam up. Soak up with inert absorbent material. Use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in ventilated areas. Prevent vapor

build-up by providing adequate ventilation during and after use.

Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children.

Incompatible Materials Incompatible with strong acids and bases and strong oxidizing agents.

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 |
|-------------------|-----------------------------------|--|
| Toluene | 20 ppm - TWA 300 ppm - Ceiling | 200 ppm - TWA 300 ppm - Ceiling |
| n-Butyl acetate | 150 ppm - TWA 200 ppm - STEL | 150 ppm - TWA 710 mg/m ³ - TWA |
| Silica, amorphous | N/E | 20 mppcf - 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.

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 | little or no odor |
| Odor Threshold | No information available |
| Density (lbs/gal) | 8.0 - 8.4 |
| Specific Gravity | 0.97 - 1.01 |
| 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 | 20 - 30 |
| Vol. % Solids | 10 - 20 |
| Wt. % Volatiles | 70 - 80 |
| Vol. % Volatiles | 80 - 90 |
| VOC Regulatory Limit (g/L) | < 999 |
| Boiling Point (°F) | 232 |
| Boiling Point (°C) | 111 |
| Freezing Point (°F) | No information available |
| Freezing Point (°C) | No information available |
| Flash Point (°F) | 54 |
| Flash Point (°C) | 12 |
| 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**

Contact with eyes may cause irritation.

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

No information available

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

No information available.

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) 3972 mg/kg
ATEmix (dermal) 7854 mg/kg

ATEmix (inhalation-dust/mist) 58.3 mg/L
ATEmix (inhalation-vapor) 1108

Acute Toxicity Component Information

Toluene

LD50 Oral: 636 mg/kg (Rat)
LD50 Dermal: 14100 µL/kg (Rabbit)
LC50 Inhalation (Vapor): 49000 mg/m³ (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)
Silica, amorphous
LD50 Oral: > 5000 mg/kg (Rat)
LD50 Dermal: 2,000 mg/kg (Rabbit)
LC50 Inhalation (Dust): > 2 mg/L

Carcinogenicity

There are no known carcinogenic chemicals in this product above reportable levels.

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.)

Acute Toxicity to Aquatic Invertebratesn-Butyl acetate

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

Acute Toxicity to Aquatic Plantsn-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 RELATED MATERIAL

Hazard class

3

UN-No.

UN1263

Packing Group

II

Description

UN1263, PAINT RELATED MATERIAL, 3, II, Marine Pollutant (Butyl benzyl phthalate)

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 (de minimis concentration)</u> |
|----------------------|----------------|-----------------|---|
| Toluene | 108-88-3 | 40 | 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 (HAP)</u> |
|----------------------|----------------|-----------------|--|
| Toluene | 108-88-3 | 40 | Listed |

US State Regulations**California Proposition 65**

 **WARNING:** Cancer and Reproductive Harm— www.P65warnings.ca.gov

State Right-to-Know

| Chemical name | Massachusetts | New Jersey | Pennsylvania |
|------------------------|---------------|------------|--------------|
| Toluene | X | X | X |
| n-Butyl acetate | X | X | X |
| Butyl benzyl phthalate | X | X | X |
| Silica, amorphous | X | X | X |

Legend

X - Listed

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 contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By

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30-May-2018

Revision Summary

Not available

Disclaimer

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END OF SAFETY DATA SHEET