



Material Safety Data Sheet

Revision Date: 17-Sep-2014

Revision Number: 8

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|--|
| Product Name | BENJAMIN MOORE UNIVERSAL ZERO VOC COLORANT |
| Product Code | 332 |
| Product Class | WATER THINNED PAINT |
| Color | All |
| Manufacturer | <u>Emergency Telephone Number(s)</u> |
| Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 Phone: 855-724-6802 www.benjaminmoore.com | CHEMTREC: 800-424-9300 |

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

| Chemical Name | CAS-No | Weight % (max) |
|---|-------------|----------------|
| Titanium dioxide | 13463-67-7 | 60 |
| Talc | 14807-96-6 | 25 |
| Magnesium carbonate | 546-93-0 | 20 |
| C.I. Pigment Blue 15 | 147-14-8 | 10 |
| Carbon black | 1333-86-4 | 10 |
| C.I. Pigment Green 7 | 1328-53-6 | 10 |
| Alcohols, C11-14-iso-, C-13-rich, ethoxylated | 78330-21-9 | 10 |
| C.I. Pigment Green 36 | 14302-13-7 | 5 |
| Proprietary nonionic surfactant blend | U97726-00-1 | 5 |
| Iron oxide black | 1317-61-9 | 5 |
| Aluminum hydroxide | 21645-51-2 | 5 |
| Silica, amorphous | 7631-86-9 | 5 |

3. HAZARDS IDENTIFICATION

Emergency Overview

Vapors may be irritating to eyes, nose, throat, and lungs. May cause skin irritation and/or dermatitis.

Appearance liquid

Odor little or no odor

Potential Health Effects

| | |
|-------------------------------------|---|
| Principal Routes of Exposure | Eye contact, skin contact and inhalation. |
| Acute Effects | |
| Eyes | May cause slight irritation. |
| Skin | Substance may cause slight skin irritation. |
| Inhalation | May cause irritation of respiratory tract. |
| Ingestion | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| Chronic Effects | Repeated contact may cause allergic reactions in very susceptible persons. |

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions None known

Potential Environmental Effects See Section 12 for additional Ecological information.

HMIS **Health:** 1* **Flammability:** 0 **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.

4. FIRST AID MEASURES

| | |
|---------------------------|---|
| General Advice | No hazards which require special first aid measures. |
| Eye Contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| Skin Contact | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. |
| Inhalation | Move to fresh air. If symptoms persist, call a physician. |
| Ingestion | Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary. |
| Notes To Physician | Treat symptomatically |

5. FIRE-FIGHTING MEASURES

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Suitable Extinguishing Media | 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. |
| Specific Hazards Arising From The Chemical | Closed containers may rupture if exposed to fire or extreme heat. |
| Sensitivity To Mechanical Impact | No |
| Sensitivity To Static Discharge | No |
| Flash Point Data | |
| Flash Point (°F) | Not applicable |
| Flash Point (°C) | Not applicable |
| Flash Point Method | Not applicable |
| Flammability Limits In Air | |
| Lower Explosion Limit | Not applicable |
| Upper Explosion Limit | Not applicable |

NFPA **Health:** 1 **Flammability:** 0 **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 | Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. |
| Environmental Precautions | See Section 12 for additional Ecological Information. |
| Methods For Clean-Up | Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. |
| Other Information | None known |

7. HANDLING AND STORAGE

| | |
|-----------------|--|
| Handling | Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment. |
|-----------------|--|

Storage Keep container tightly closed. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Hazardous Components

| Chemical Name | ACGIH | OSHA |
|---|-----------------------------|--|
| Titanium dioxide | 10 mg/m ³ - TWA | 15 mg/m ³ - TWA |
| Talc | 2 mg/m ³ - TWA | 20 mppcf - TWA |
| Magnesium carbonate | N/E | 15 mg/m ³ - TWA total 5 mg/m ³ - TWA |
| C.I. Pigment Blue 15 | N/E | N/E |
| Carbon black | 3.5 mg/m ³ - TWA | 3.5 mg/m ³ - TWA |
| C.I. Pigment Green 7 | N/E | N/E |
| Alcohols, C11-14-iso-, C-13-rich, ethoxylated | N/E | N/E |
| C.I. Pigment Green 36 | N/E | N/E |
| Proprietary nonionic surfactant blend | N/E | N/E |
| Iron oxide black | 1 mg/m ³ - TWA | N/E |
| Aluminum hydroxide | 1 mg/m ³ - TWA | N/E |
| Silica, amorphous | N/E | - (80)/(% SiO ₂) mg/m ³ TWA 20 mppcf - TWA |

Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration 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.

Skin Protection

Protective gloves and impervious clothing

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment.

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 |
| Density (lbs/gal) | 9.2 - 16.5 |
| Specific Gravity | 1.10 - 1.97 |
| pH | Not available |
| Evaporation Rate | Not available |
| Vapor Pressure | Not available |
| Vapor Density | Not available |
| Wt. % Solids | 45 - 85 |
| Vol. % Solids | 35 - 65 |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------|----------------|
| Wt. % Volatiles | 15 - 55 |
| Vol. % Volatiles | 35 - 65 |
| VOC Regulatory Limit (g/L) | 0 |
| Boiling Point (°F) | 212 |
| Boiling Point (°C) | 100 |
| Freezing Point (°F) | 32 |
| Freezing Point (°C) | 0 |
| Flash Point (°F) | Not applicable |
| Flash Point (°C) | Not applicable |
| Flash Point Method | Not applicable |
| Upper Explosion Limit | Not applicable |
| Lower Explosion Limit | Not applicable |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Chemical Stability | Stable under normal conditions. |
| Conditions To Avoid | Prevent from freezing |
| Incompatible Materials | No materials to be especially mentioned. |
| Hazardous Decomposition Products | None under normal use. |
| Possibility Of Hazardous Reactions | None under normal conditions of use. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product

No information available

Component

Titanium dioxide

LD50 Oral: > 10000 mg/kg (Rat)
LD50 Dermal: > 10000 mg/m³ (Rabbit)
LC50 Inhalation (Dust): > 6.82 mg/L (Rat, 4 hr.)

C.I. Pigment Blue 15

LD50 Oral: > 15,000 mg/kg (Rat)

Carbon black

LD50 Oral: > 15400 mg/kg (Rat)
LD50 Dermal: > 3000 mg/kg (Rabbit)

Silica, amorphous

LD50 Oral: > 5000 mg/kg (Rat)
LD50 Dermal: 2,000 mg/kg (Rabbit)
LC50 Inhalation (Dust): > 2 mg/L

Chronic Toxicity

Carcinogenicity

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

| Chemical Name | ACGIH | IARC | NTP | OSHA Carcinogen |
|------------------|-------|--------------------------------|-----|-----------------|
| Titanium dioxide | | 2B - Possible Human Carcinogen | | Listed |
| Carbon black | | 2B - Possible Human Carcinogen | | Listed |

- Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "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."

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

IARC - International Agency for Research on Cancer

NTP - National Toxicity Program

OSHA - Occupational Safety & Health Administration IARC - International Agency for Research on Cancer

NTP - National Toxicity Program

OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

Product

Acute Toxicity to Fish

No information available

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

Component

Acute Toxicity to Fish

Titanium dioxide

LC50: >1000 mg/L (Fathead Minnow - 96 hr.)

12. ECOLOGICAL INFORMATION

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with federal, state, and local regulations. Dry, empty containers may be recycled in a can recycling program. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

DOT

Not regulated

ICAO / IATA

Not regulated

IMDG / IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

United States TSCA

Yes - All components are listed or exempt.

Canada DSL

No - Not all of the components are listed.

One or more component is listed on NDSL.

Federal Regulations

SARA 311/312 hazardous categorization

| | |
|-----------------------------------|-----|
| Acute Health Hazard | No |
| Chronic Health Hazard | Yes |
| Fire Hazard | No |
| 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:

| Chemical Name | CAS-No | Weight % (max) |
|-----------------------|------------|----------------|
| C.I. Pigment Blue 15 | 147-14-8 | 10 |
| C.I. Pigment Green 7 | 1328-53-6 | 10 |
| C.I. Pigment Green 36 | 14302-13-7 | 5 |

This product may contain trace amounts of (other) SARA reportable chemicals. Contact the preparer for further information.

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

This product contains the following HAPs:

This product may contain trace amounts of (other) HAPs chemicals. Contact the preparer for further information.

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

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Louisiana | Rhode Island |
|-----------------------|---------------|------------|--------------|-----------|--------------|
| Titanium dioxide | X | X | X | | X |
| Talc | X | X | X | | X |
| Magnesium carbonate | X | X | | | X |
| C.I. Pigment Blue 15 | | X | X | | |
| Carbon black | X | X | X | | X |
| C.I. Pigment Green 7 | | X | X | | |
| C.I. Pigment Green 36 | | X | X | | |
| Iron oxide black | | | | | X |
| Silica, amorphous | X | X | X | | |

Legend

X - Listed

16. OTHER INFORMATION

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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Disclaimer

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End of MSDS