



Material Safety Data Sheet

Revision Date: 27-Nov-2012

Revision Number: 5

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SUPER SPEC URETHANE GLOSS ENAMEL
Product Code P22
Product Class SOLVENT THINNED PAINT
Color All

Manufacturer Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 201-573-9600
www.benjaminmoore.com

Emergency Telephone Number(s)
CHEMTREC: 800-424-9300

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

| Chemical Name | CAS-No | Weight % (max) |
|--|------------|----------------|
| Stoddard solvent | 8052-41-3 | 30 |
| Hydrotreated heavy naphtha, petroleum | 64742-48-9 | 30 |
| Titanium dioxide | 13463-67-7 | 25 |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | 10 |
| Kaolin | 1332-58-7 | 10 |
| Sunflower oil | 8001-21-6 | 10 |
| Carbon black | 1333-86-4 | 5 |
| Iron oxide | 1309-37-1 | 5 |
| Xylene | 1330-20-7 | 5 |
| Silica, amorphous | 7631-86-9 | 5 |
| Magnesium carbonate | 546-93-0 | 5 |
| Pigment Orange 34 | 15793-73-4 | 0.5 |
| Ethyl benzene | 100-41-4 | 0.5 |
| Cobalt bis(2-ethylhexanoate) | 136-52-7 | 0.5 |

3. HAZARDS IDENTIFICATION

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Emergency Overview

WARNING

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

Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded.

Appearance liquid

Odor Not available

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principal Routes of Exposure

Eye contact, skin contact and inhalation.

Acute Effects

Eyes

Contact with eyes may cause irritation.

Skin

May cause skin irritation and/or dermatitis.

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.

Ingestion

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.

Chronic Effects

Avoid repeated exposure

Contains Pigment Orange 34 which can cause cancer. Risk of cancer depends on duration and level of exposure.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions None known

HMIS

Health: 1*

Flammability: 2

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 | 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. |
| Notes To Physician | Treat symptomatically |
| Protection Of First-Aiders | Use personal protective equipment |

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| 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. |
| Specific Hazards Arising From The Chemical | Combustible material. Closed containers may rupture if exposed to fire or extreme heat. Keep product and empty container away from heat and sources of ignition. 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) | 113 |
| Flash Point (°C) | 45 |
| Flash Point Method | PMCC |
| Flammability Limits In Air | |
| Lower Explosion Limit | Not available |
| Upper Explosion Limit | Not available |

NFPA **Health:** 1 **Flammability:** 2 **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 | Use personal protective equipment. Remove all sources of ignition. |
| Environmental Precautions | 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. |
| Methods For Clean-Up | Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. |
| Other Information | None known |

7. HANDLING AND STORAGE

| | |
|-----------------|---|
| Handling | Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Wear personal protective equipment. 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 open flames, hot surfaces and sources of ignition. |
| Storage | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep in properly labeled containers. DANGER - Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container. |

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure Limits****Hazardous Components**

| Chemical Name | ACGIH | OSHA |
|--|----------------------------|---|
| Stoddard solvent | 100 ppm - TWA | 2900 mg/m ³ - TWA 500 ppm - TWA |
| Hydrotreated heavy naphtha, petroleum | N/E | N/E |
| Titanium dioxide | 10 mg/m ³ - TWA | 15 mg/m ³ - TWA total |
| Distillates, petroleum, hydrotreated light | N/E | N/E |

| | | |
|------------------------------|---------------------------------|--|
| Kaolin | 2 mg/m ³ - TWA | 15 mg/m ³ - TWA total 5 mg/m ³ - TWA |
| Sunflower oil | N/E | N/E |
| Carbon black | 3.5 mg/m ³ - TWA | 3.5 mg/m ³ - TWA |
| Iron oxide | 5 mg/m ³ - TWA | 10 mg/m ³ - TWA |
| Xylene | 100 ppm - TWA 150 ppm - STEL | 100 ppm - TWA 435 mg/m ³ - TWA |
| Silica, amorphous | N/E | - (80)/(% SiO ₂) mg/m ³ TWA 20 mppcf - TWA |
| Magnesium carbonate | N/E | 15 mg/m ³ - TWA total 5 mg/m ³ - TWA |
| Pigment Orange 34 | N/E | N/E |
| Ethyl benzene | 20 ppm - TWA | 100 ppm - TWA 435 mg/m ³ - TWA |
| Cobalt bis(2-ethylhexanoate) | N/E | N/E |

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

Long sleeved clothing. Protective gloves.

Respiratory Protection

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. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|---------------|
| Appearance | liquid |
| Odor | Not available |
| Density (lbs/gal) | 7.6 - 9.7 |
| Specific Gravity | 0.91 - 1.17 |
| pH | Not available |
| Viscosity (centistokes) | Not available |
| Evaporation Rate | Not available |
| Vapor Pressure | Not available |
| Vapor Density | Not available |
| Wt. % Solids | 50 - 70 |
| Vol. % Solids | 40 - 55 |
| Wt. % Volatiles | 30 - 50 |
| Vol. % Volatiles | 45 - 60 |
| VOC Regulatory Limit (g/L) | < 400 |
| Boiling Point (°F) | 279 |
| Boiling Point (°C) | 137 |
| Freezing Point (°F) | Not available |
| Freezing Point (°C) | Not available |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------|---------------|
| Flash Point (°F) | 113 |
| Flash Point (°C) | 45 |
| Flash Point Method | PMCC |
| Upper Explosion Limit | Not available |
| Lower Explosion Limit | Not available |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| 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. |
| 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

Acute Toxicity

Product

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.

Component

Stoddard solvent

LD50 Oral: > 5,000 mg/kg (Rat)

LD50 Dermal: > 3160 mg/kg (Rabbit)

LC50 Inhalation (Vapor): > 6.1 mg/L (Rat)

Hydrotreated heavy naphtha, petroleum

LD50 Oral: > 5,000 mg/kg (Rat) vendor data

LD50 Dermal: > 3,000 mg/kg (Rabbit)

Titanium dioxide

LD50 Oral: > 10000 mg/kg (Rat)

LD50 Dermal: > 10000 mg/m³ (Rabbit)

LC50 Inhalation (Dust): > 6.82 mg/L (Rat, 4 hr.)

Distillates, petroleum, hydrotreated light

LD50 Oral: > 5,000 mg/kg (Rat)

LD50 Dermal: > 3,000 mg/kg (Rabbit)

Kaolin

LD50 Oral: > 5000 mg/kg (Rat)

Carbon black

LD50 Oral: > 15400 mg/kg (Rat)

LD50 Dermal: > 3000 mg/kg (Rabbit)

Iron oxide

LD50 Oral: > 5000 mg/kg (Rat) vendor data

Xylene

LD50 Oral: 4300 mg/kg (Rat)

LD50 Dermal: > 1700 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.)

Sensitization: No sensitizing effects known.

Silica, amorphous

LD50 Oral: > 5000 mg/kg (Rat)

LD50 Dermal: 2,000 mg/kg (Rabbit)

LC50 Inhalation (Dust): > 2 mg/L

Ethyl benzene

LD50 Oral: 3500 mg/kg (Rat)

LD50 Dermal: > 5000 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 55000 mg/m³ (Rat, 2 hr.)

Sensitization: No sensitizing effects known.

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 |
| Pigment Orange 34 | | 1 - Human Carcinogen | Known Human Carcinogen | |
| Ethyl benzene | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans | 2B - Possible Human Carcinogen | | Listed |

| Chemical Name | ACGIH | IARC | NTP | OSHA Carcinogen |
|------------------------------|-------|--------------------------------|-----|-----------------|
| Cobalt bis(2-ethylhexanoate) | | 2B - Possible Human Carcinogen | | |

- 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."
- Cobalt and cobalt compounds are listed as possible human carcinogens by IARC (2B). However, there is inadequate evidence of the carcinogenicity of cobalt and cobalt compounds in humans.

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

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.)

Xylene

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

Ethyl benzene

LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

Ethyl benzene

EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

12. ECOLOGICAL INFORMATION

Acute Toxicity to Aquatic Plants

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 container is emptied. Residual vapors may explode on ignition.

14. TRANSPORT INFORMATION

DOT

| | |
|-----------------------------|-----------------|
| Proper Shipping Name | Paint (Mixture) |
| Hazard Class | 3 |
| UN-No | UN1263 |
| Packing Group | III |

In the US this material may be reclassified as a Combustible Liquid and is not regulated in containers of less than 119 gallons (450 liters) via surface transportation (refer to 49CFR173.120(b)(2) for further information).

ICAO / IATA

Contact the preparer for further information.

IMDG / IMO

Contact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

United States TSCA

Yes - All components are listed or exempt.

Canada DSL

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:

| Chemical Name | CAS-No | Weight % (max) |
|----------------------|---------------|-----------------------|
| Xylene | 1330-20-7 | 5 |
| Ethyl benzene | 100-41-4 | 0.5 |

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:

| Chemical Name | CAS-No | Weight % (max) |
|------------------------------|---------------|-----------------------|
| Xylene | 1330-20-7 | 5 |
| Ethyl benzene | 100-41-4 | 0.5 |
| Cobalt bis(2-ethylhexanoate) | 136-52-7 | 0.5 |

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 |
|------------------------------|----------------------|-------------------|---------------------|------------------|---------------------|
| Stoddard solvent | X | X | X | | X |
| Titanium dioxide | X | X | X | | X |
| Kaolin | X | X | X | | X |
| Carbon black | X | X | X | | X |
| Iron oxide | X | X | X | | X |
| Xylene | X | X | X | | X |
| Silica, amorphous | X | X | X | | |
| Magnesium carbonate | X | X | | | X |
| Ethyl benzene | X | X | X | | X |
| Cobalt bis(2-ethylhexanoate) | | X | X | | |

Legend

X - Listed

16. OTHER INFORMATION

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 Product Stewardship Department
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Disclaimer

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End of MSDS