



Material Safety Data Sheet

Revision Date: 16-May-2008

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SUPER SPEC HP 220 LATEX FLAT FIRE RETARDANT WHITE
Product Code P5901
Product Class WATER 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) |
|---|------------|----------------|
| 1,3,5-Triazine-2,4,6-triamine | 108-78-1 | 10 |
| Titanium dioxide | 13463-67-7 | 10 |
| Diethylene glycol monoethyl ether acetate | 112-15-2 | 5 |
| Ethylene glycol | 107-21-1 | 5 |

3. HAZARDS IDENTIFICATION

Emergency Overview

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

Appearance White or pastel pigmented liquid

Odor mild

Potential Health Effects

Principal Routes of Exposure Eye contact, skin contact and inhalation.

Acute Effects

Eyes Mild eye irritation.
Skin Mild skin irritation.
Inhalation May cause irritation of respiratory tract.. Excessive exposure to heated vapors may cause irritation of eyes, nose and throat.
Ingestion May cause irritation of the digestive tract.

Chronic Effects Repeated contact may cause allergic reactions in very susceptible persons.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions None known

HMIS **Health:** 1* **Flammability:** 1 **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, Benjamin Moore & Co., 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

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 available |
| Upper Explosion Limit | Not available |

NFPA Health: 1 Flammability: 1 Instability: 0 Special: Not Applicable

NFPA Legend

- 0 - Not Hazardous
- 1 - Slightly
- 2 - Moderate
- 3 - High
- 4 - Severe

The ratings assigned by Benjamin Moore & Co. 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 | Prevent further leakage or spillage if safe to do so. |
| 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 |
|---|---------------------------------|--------------------------------------|
| 1,3,5-Triazine-2,4,6-triamine | N/E | N/E |
| Titanium dioxide | 10 mg/m ³ - TWA | PEL 15 mg/m ³ Total dust. |
| Diethylene glycol monoethyl ether acetate | N/E | N/E |
| Ethylene glycol | 100 mg/m ³ - Ceiling | 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

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 | White or pastel pigmented liquid |
| Odor | mild |
| Density (lbs/gal) | 10.90 |
| Specific Gravity | 1.31 |
| pH | 8.0 - 11.5 |
| Viscosity (centistokes) | Not available |
| Solubility | dilutable |
| Evaporation Rate | <1 (butyl acetate = 1) |
| Vapor Pressure | Not available |
| Vapor Density | 1 |
| Wt. % Solids | 57 - 61 |
| Vol. % Solids | 45 - 49 |
| Wt. % Volatiles | 39 - 43 |
| Vol. % Volatiles | 51 - 55 |
| VOC (g/L) | < 60 |
| 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 available |
| Lower Explosion Limit | Not available |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Chemical Stability | Stable under normal conditions. |
| Conditions To Avoid | elevated temperature. |
| 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

1,3,5-Triazine-2,4,6-triamine

LD50 Oral: 3,160 mg/kg (Rat)

LD50 Dermal: > 1,000 mg/kg (Rabbit)

LC50 Inhalation (Dust): 3,248 mg/m³ (Rat, 4 hr.)

Titanium dioxide

LD50 Oral: > 24000 mg/kg (Rat)

LD50 Dermal: > 10000 mg/m³ (Rabbit)

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

Diethylene glycol monoethyl ether acetate

LD50 Oral: 11,000 mg/kg (Rat)

LD50 Dermal: 15,100 µL/kg (Rabbit)

Ethylene glycol

LD50 Oral: 4700 mg/kg (Rat)

LD50 Dermal: 9530 µg/L (Rabbit)

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 | | |

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

Sensitization: No sensitizing effects known..

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.)

Ethylene glycol
LC50: 8050 mg/L (Fathead Minnow - 96 hr.)

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, provincial, and local regulations. 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 | Yes - All components are listed or exempt. |

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:

| <u>Chemical Name</u> | <u>CAS-No</u> | <u>Weight % (max)</u> |
|---|---------------|-----------------------|
| Diethylene glycol monoethyl ether acetate | 112-15-2 | 5 |
| Ethylene glycol | 107-21-1 | 5 |

This product may contain trace amounts of (other) SARA reportable chemicals. Contact Benjamin Moore & Co. for further information.

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> |
|---|---------------|-----------------------|
| Diethylene glycol monoethyl ether acetate | 112-15-2 | 5 |
| Ethylene glycol | 107-21-1 | 5 |

This product may contain trace amounts of (other) HAPs chemicals. Contact Benjamin Moore & Co. 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 |
|-------------------------------|---------------|------------|--------------|-----------|--------------|
| 1,3,5-Triazine-2,4,6-triamine | X | X | X | | |
| Titanium dioxide | X | X | X | | X |
| Ethylene glycol | X | 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.

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Disclaimer

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End of MSDS