



Benjamin Moore®

SAFETY DATA SHEET

Revision Date: 23-Feb-2024

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name HP ALKYD URETHANE ENAMEL SATIN - TINTABLE WHITE
Product Code HP2220-7BFR
Alternate Product Code UF627B
Product Class SOLVENT THINNED PAINT
Color All
Recommended use Paint
Restrictions on use No information available

Manufactured For

Benjamin Moore & Co., Limited
8775 Keele Street
Concord ON L4K 2N1
Phone: 1-800-361-5898
www.benjaminmoore.com/en-ca

Manufacturer

Benjamin Moore & Co.
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Emergency Telephone

CHEMTREC: +1 703-741-5970 / 1-800-424-9300
+1 703-527-3887 (outside US & Canada)
CANUTEC: 613-996-6666 (Transport Emergency Only)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the Hazardous Products Regulations (HPR: SOR/2015-17)

| | |
|--|-------------|
| Skin sensitization | Category 1 |
| Germ cell mutagenicity | Category 1B |
| Carcinogenicity | Category 1B |
| Specific target organ toxicity (repeated exposure) | Category 1 |
| Aspiration hazard | Category 1 |
| Flammable liquids | Category 3 |
| Physical hazard not otherwise classified | Category 1 |

Label elements

Danger

Hazard statements

May cause an allergic skin reaction
May cause genetic defects
May cause cancer
Causes damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Flammable liquid and vapor
Risk of spontaneous combustion



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
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground and bond container and receiving equipment
Use only non-sparking tools
Take action to prevent static discharges
Immediately after use, place rags, steel wool or waste used with this product in a sealed water-filled metal container or lay flat to dry.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Skin

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

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

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

Materials such as rags used with this product may begin to burn by themselves. After use, put rags in water or lay flat to dry, then discard.

Other information

No information available

3. COMPOSITION INFORMATION ON COMPONENTS

| Chemical name | CAS No. | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|---|------------|-------------|--|---|
| Titanium dioxide | 13463-67-7 | 10 - 30% | - | - |
| Nepheline syenite | 37244-96-5 | 10 - 30% | - | - |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | 10 - 30% | - | - |
| Solvent naphtha, petroleum, medium aliphatic | 64742-88-7 | 5 - 10% | - | - |
| Zinc oxide | 1314-13-2 | 1 - 5% | - | - |
| Zinc phosphate | 7779-90-0 | 1 - 5% | - | - |
| Talc | 14807-96-6 | 1 - 5% | - | - |
| Magnesium carbonate | 546-93-0 | 1 - 5% | - | - |
| Stoddard solvent | 8052-41-3 | 1 - 5% | - | - |
| 1H-imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- | 95-38-5 | 0.5 - 1% | - | - |
| Ethyl benzene | 100-41-4 | 0.1 - 0.25% | - | - |
| Methyl ethyl ketoxime | 96-29-7 | 0.1 - 0.25% | - | - |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.1 - 0.25% | - | - |

Confidential Business Information note

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General Advice

Immediate medical attention is required. 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 while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Wash clothing before reuse. Destroy contaminated articles such as shoes. For severe burns, immediate medical attention is required.

| | |
|--|---|
| 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 | May cause allergic skin reaction. |
| Notes To Physician | Treat symptomatically. |

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) | 105 |
| Flash Point (°C) | 41 |
| Method | PMCC |
| Flammability Limits In Air | |
| Lower flammability limit: | No data available |
| Upper flammability limit: | No data available |
| NFPA | |
| Health hazards | 2 |
| Flammability | 2 |
| Stability | 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.

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. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

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 away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children.

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.

Incompatible Materials

Incompatible with strong acids and bases and strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

| Chemical name | ACGIH TLV | Alberta | British Columbia | Ontario | Quebec |
|------------------------|--|--|---|--|--|
| Titanium dioxide | TWA: 0.2 mg/m ³ nanoscale respirable particulate matter TWA: 2.5 mg/m ³ finescale respirable particulate matter | 10 mg/m ³ - TWA | 10 mg/m ³ - TWA 3 mg/m ³ - TWA | 10 mg/m ³ - TWA | 10 mg/m ³ - TWAEV |
| Nepheline syenite | - | - | - | 10 mg/m ³ - TWA | - |
| Zinc oxide | STEL: 10 mg/m ³ respirable particulate matter TWA: 2 mg/m ³ respirable particulate matter TWA: 0.5 mg/m ³ Ba As Barium soluble compounds [RR-00049-7] | 2 mg/m ³ - TWA 10 mg/m ³ - STEL | 2 mg/m ³ - TWA 10 mg/m ³ - STEL | 2 mg/m ³ - TWA 10 mg/m ³ - STEL | 10 mg/m ³ - TWAEV 5 mg/m ³ - TWAEV 10 mg/m ³ - STEV |
| Talc | TWA: 2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter | 2 mg/m ³ - TWA | 2 mg/m ³ - TWA | 2 mg/m ³ - TWA | 2 mg/m ³ - TWAEV |
| Magnesium carbonate | - | - | 10 mg/m ³ - TWA 3 mg/m ³ - TWA | - | 10 mg/m ³ - TWAEV |
| Stoddard solvent | TWA: 100 ppm | 100 ppm - TWA 572 mg/m ³ - TWA | 290 mg/m ³ - TWA 580 mg/m ³ - STEL | 525 mg/m ³ - TWA | 100 ppm - TWAEV 525 mg/m ³ - TWAEV |
| Ethyl benzene | Ototoxicant - potential to cause hearing disorders TWA: 20 ppm | 100 ppm - TWA 434 mg/m ³ - TWA 125 ppm - STEL 543 mg/m ³ - STEL | 20 ppm - TWA | 20 ppm - TWA | 100 ppm - TWAEV 434 mg/m ³ - TWAEV 125 ppm - STEV 543 mg/m ³ - STEV |
| 1,2,4-Trimethylbenzene | TWA: 10 ppm | - | - | - | - |

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
Alberta - Alberta Occupational Exposure Limits
British Columbia - British Columbia Occupational Exposure Limits
Ontario - Ontario Occupational Exposure Limits
Quebec - Quebec Occupational 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 If splashes are likely to occur, wear: Tightly fitting safety goggles
Long sleeved clothing. Protective gloves.

Skin Protection

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 | solvent |
| Odor Threshold | No information available |
| Density (lbs./gal) | 11.4 - 11.9 |
| Specific Gravity | 1.36 - 1.43 |
| 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 |
| Relative vapor density | No information available |
| Wt. % Solids | 70 - 80 |
| Vol. % Solids | 50 - 60 |
| Wt. % Volatiles | 20 - 30 |
| Vol. % Volatiles | 40 - 50 |
| VOC Regulatory Limit (g/L) | < 400 |
| Boiling Point (°F) | 279 |
| Boiling Point (°C) | 137 |
| Freezing point (°F) | No information available |
| Freezing Point (°C) | No information available |
| Flash point (°F) | 105 |
| Flash Point (°C) | 41 |
| Method | PMCC |
| Flammability (solid, gas) | Not applicable |
| Upper flammability limit: | Not applicable |
| Lower flammability limit: | Not applicable |
| 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 | Not Applicable |
| 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

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. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |
| 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. May cause an allergic skin reaction. |
| Sensitization | No information available. |
| Neurological Effects | No information available. |
| Mutagenic Effects | No information available. |
| Reproductive Effects | No information available. |
| Developmental Effects | No information available. |
| Target organ effects | No information available. |
| STOT - single exposure | May cause disorder and damage to the. Central nervous |

STOT - repeated exposure

Other adverse effects

Aspiration Hazard

system. Respiratory system.
Causes damage to organs through prolonged or repeated exposure if inhaled.
No information available.
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) 7810 mg/kg

Component Information

Caution - This mixture contains a substance not yet fully tested

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|-----------------------|------------------------------|-----------------------------------|
| Titanium dioxide 13463-67-7 | > 10000 mg/kg (Rat) | - | - |
| Distillates, petroleum, hydrotreated light 64742-47-8 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 5.2 mg/L (Rat) 4 h |
| Solvent naphtha, petroleum, medium aliphatic 64742-88-7 | > 25 mL/kg (Rat) | > 3000 mg/kg (Rabbit) | - |
| Zinc oxide 1314-13-2 | > 5000 mg/kg (Rat) | - | - |
| Zinc phosphate 7779-90-0 | > 5000 mg/kg (Rat) | - | - |
| Ethyl benzene 100-41-4 | = 3500 mg/kg (Rat) | = 15400 mg/kg (Rabbit) | = 17.4 mg/L (Rat) 4 h |
| Methyl ethyl ketoxime 96-29-7 | = 930 mg/kg (Rat) | 1000 - 1800 mg/kg (Rabbit) | > 4.83 mg/L (Rat) 4 h |
| 1,2,4-Trimethylbenzene 95-63-6 | = 3280 mg/kg (Rat) | > 3160 mg/kg (Rabbit) | = 18 g/m ³ (Rat) 4 h |

Chronic Toxicity

Carcinogenicity

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

| Chemical name | IARC | NTP |
|------------------|--------------------------------|-----|
| Titanium dioxide | 2B - Possible Human Carcinogen | |
| Ethyl benzene | 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

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

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

Titanium dioxide

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

Ethyl benzene

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

Methyl ethyl ketoxime

LC50: 48 mg/L (Bluegill sunfish - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

Ethyl benzene

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

Methyl ethyl ketoxime

EC50: 750 mg/L (Daphnia magna - 48 hr.)

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, provincial, 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

TDG

| | |
|-----------------------------------|-----------------------|
| Proper Shipping Name | Paint |
| Transport hazard class(es) | 3 |
| UN-No | UN1263 |
| Packing Group | III |
| Description | UN1263, Paint, 3, III |

In Canada, Class 3 flammable liquids may be reclassified as non-regulated for domestic ground transportation if they meet the requirements of TDG General Exemption SOR/2008-34.

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. |

National Pollutant Release Inventory (NPRI)

NPRI Parts 1- 4

This product contains the following Parts 1-4 NPRI chemicals:

| <u>Chemical name</u> | <u>CAS No.</u> | <u>Weight-%</u> | <u>NPRI Parts 1- 4</u> |
|----------------------|----------------|-----------------|------------------------|
|----------------------|----------------|-----------------|------------------------|

| | | | |
|------------------------|----------|-------------|--------|
| Ethyl benzene | 100-41-4 | 0.1 - 0.25% | Listed |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.1 - 0.25% | Listed |

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

| <u>Chemical name</u> | <u>CAS No.</u> | <u>Weight-%</u> | <u>NPRI Part 5</u> |
|--|----------------|-----------------|--------------------|
| Distillates, petroleum, hydrotreated light | 64742-47-8 | 10 - 30% | Listed |
| Solvent naphtha, petroleum, medium aliphatic | 64742-88-7 | 5 - 10% | Listed |
| Stoddard solvent | 8052-41-3 | 1 - 5% | Listed |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.1 - 0.25% | Listed |

WHMIS Regulatory Status

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

16. OTHER INFORMATION

HMIS

| | |
|----------------------------|----|
| Health hazards | 2* |
| Flammability | 2 |
| Reactivity: | 0 |
| Personal protection | - |

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 logging onto Health Canada at http://www.hc-sc.gc.ca/ewh-sem/contaminants/lead-plomb/asked_questions-questions_posees-eng.php.

Prepared By Product Stewardship Department
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Reason for revision Not available

Disclaimer

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End of Safety Data Sheet