



Benjamin Moore®

SAFETY DATA SHEET

Revision Date: 09-Apr-2024

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name HP ALIPHATIC URETHANE SEMI-GLOSS - TINTABLE WHITE
Product Code HP5010-7BFR
Alternate Product Code UF147B
Product Class FINISH COATING
Color White
Recommended use Industrial 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.
 101 Paragon Drive
 Montvale, NJ 07645
 Phone: 1-866-708-9180
 www.benjaminmoore.com

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)

| | |
|--|-------------|
| Germ cell mutagenicity | Category 1B |
| Carcinogenicity | Category 1A |
| Reproductive toxicity | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Flammable liquids | Category 2 |

Label elements

Danger

Hazard statements

May cause genetic defects
 May cause cancer

Suspected of damaging fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure
Highly flammable liquid and vapor



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

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Skin

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

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

Other information

No information available

IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

CAUTION: All floor coatings may become slippery when wet. Where non-skid characteristics are desired, use an appropriate anti-slip aggregate.

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% | - | - |
| n-Butyl acetate | 123-86-4 | 10 - 30% | - | - |
| 2-Pentanone, 4-methyl- | 108-10-1 | 1 - 5% | - | - |
| Propylene glycol monomethyl ether acetate | 108-65-6 | 1 - 5% | - | - |
| Silica, amorphous, fumed | 112945-52-5 | 1 - 5% | - | - |
| Xylene | 1330-20-7 | 1 - 5% | - | - |
| t-Butyl acetate | 540-88-5 | 1 - 5% | - | - |
| Ethyl benzene | 100-41-4 | 0.5 - 1% | - | - |
| Trimethylolpropane | 77-99-6 | 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

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)

40

Flash Point (°C)

4

Method

PMCC

Flammability Limits In Air

Lower flammability limit:

No data available

Upper flammability limit:

No data available

NFPA

Health hazards

2

Flammability

3

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

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.

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 |
| n-Butyl acetate | STEL: 150 ppm TWA: 50 ppm | 150 ppm - TWA 713 mg/m ³ - TWA 200 ppm - STEL 950 mg/m ³ - STEL | 20 ppm - TWA | 150 ppm - TWA 200 ppm - STEL | 150 ppm - TWAEV 713 mg/m ³ - TWAEV 200 ppm - STEV 950 mg/m ³ - STEV |
| 2-Pentanone, 4-methyl- | STEL: 75 ppm TWA: 20 ppm | 50 ppm - TWA 205 mg/m ³ - TWA 75 ppm - STEL 307 mg/m ³ - STEL | 20 ppm - TWA 75 ppm - STEL | 20 ppm - TWA 75 ppm - STEL | 50 ppm - TWAEV 205 mg/m ³ - TWAEV 75 ppm - STEV 307 mg/m ³ - STEV |
| Propylene glycol monomethyl ether acetate | - | - | 50 ppm - TWA 75 ppm - STEL | 50 ppm - TWA 270 mg/m ³ - TWA | - |
| Xylene | TWA: 20 ppm | 100 ppm - TWA 434 mg/m ³ - TWA 150 ppm - STEL 651 mg/m ³ - STEL | 100 ppm - TWA 150 ppm - STEL | 100 ppm - TWA 150 ppm - STEL | 100 ppm - TWAEV 434 mg/m ³ - TWAEV 150 ppm - STEV 651 mg/m ³ - STEV |
| t-Butyl acetate | STEL: 150 ppm TWA: 50 ppm | 200 ppm - TWA 950 mg/m ³ - TWA | 200 ppm - TWA | 200 ppm - TWA | 200 ppm - TWAEV 950 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 |

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

Skin Protection

Protective gloves and impervious clothing.

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 | solvent |
| Odor Threshold | No information available |
| Density (lbs./gal) | 10.7 - 11.1 |
| Specific Gravity | 1.28 - 1.33 |
| 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 | 65 - 75 |
| Vol. % Solids | 50 - 60 |
| Wt. % Volatiles | 25 - 35 |
| Vol. % Volatiles | 40 - 50 |
| VOC Regulatory Limit (g/L) | < 340 |
| Boiling Point (°F) | 208 |
| Boiling Point (°C) | 98 |
| Freezing point (°F) | No information available |
| Freezing Point (°C) | No information available |
| Flash point (°F) | 40 |
| Flash Point (°C) | 4 |
| 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. 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.

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.

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.

Sensitization

No information available.

Neurological Effects

No information available.

Mutagenic Effects

No information available.

Reproductive Effects

Possible risk of impaired fertility. Possible risk of harm to the unborn child.

Developmental Effects

No information available.

Target organ effects

No information available.

STOT - single exposure

May cause disorder and damage to the, Respiratory system, Central nervous system.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

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) | 12487 mg/kg |
| ATEmix (inhalation-dust/mist) | 17.4 mg/l |
| ATEmix (inhalation-vapor) | 158.1 mg/l |

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) | - | - |
| n-Butyl acetate 123-86-4 | = 10768 mg/kg (Rat) | > 17600 mg/kg (Rabbit) | - |
| 2-Pentanone, 4-methyl- 108-10-1 | = 2080 mg/kg (Rat) | = 3000 mg/kg (Rabbit) | 2000 - 4000 ppm (Rat) 4 h |
| Propylene glycol monomethyl ether acetate 108-65-6 | = 8532 mg/kg (Rat) | > 5 g/kg (Rabbit) | - |
| Silica, amorphous, fumed 112945-52-5 | = 3160 mg/kg (Rat) | - | - |
| Xylene 1330-20-7 | = 3500 mg/kg (Rat) | > 4350 mg/kg (Rabbit) | = 29.08 mg/L (Rat) 4 h |
| t-Butyl acetate 540-88-5 | = 4100 mg/kg (Rat) | > 2000 mg/kg (Rabbit) > 2 g/kg (Rabbit) | > 9482 mg/m ³ (Rat) 4 h > 2230 mg/m ³ (Rat) 4 h |
| Ethyl benzene 100-41-4 | = 3500 mg/kg (Rat) | = 15400 mg/kg (Rabbit) | = 17.4 mg/L (Rat) 4 h |
| Trimethylolpropane 77-99-6 | = 14100 mg/kg (Rat) = 14000 mg/kg (Rat) | - | > 0.29 mg/L (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 | |
| 2-Pentanone, 4-methyl- | 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.)

n-Butyl acetate

LC50: 18 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

n-Butyl acetate

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

Ethyl benzene

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

Acute Toxicity to Aquatic Plants

n-Butyl acetate

EC50: 674.7 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

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 | II |
| Description | UN1263, Paint, 3, II |

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

No - Not all of the components are listed.
One or more component is listed on NDSL.

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> |
|------------------------|----------------|-----------------|------------------------|
| 2-Pentanone, 4-methyl- | 108-10-1 | 1 - 5% | Listed |
| Xylene | 1330-20-7 | 1 - 5% | Listed |
| Ethyl benzene | 100-41-4 | 0.5 - 1% | 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> |
|---|----------------|-----------------|--------------------|
| n-Butyl acetate | 123-86-4 | 10 - 30% | Listed |
| 2-Pentanone, 4-methyl- | 108-10-1 | 1 - 5% | Listed |
| Propylene glycol monomethyl ether acetate | 108-65-6 | 1 - 5% | Listed |
| Xylene | 1330-20-7 | 1 - 5% | 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 | 3 |
| 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-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php.

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Reason for revision Not available

Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

End of Safety Data Sheet