

Revision Date: 28-Aug-2023 Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name HP DTM MASTIC URETHANE SATIN - DEEP BASE

Product Code HP5720-8BFR

Alternate Product Code UF478B

Product Class FINISH COATING

Color All

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)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1A
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 3

Label elements

Hazard statements

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Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

May cause genetic defects

May cause cancer

May cause respiratory irritation

Flammable liquid and vapor



Appearance liquid

Odor solvent

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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

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

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

Keep cool

Wear protective gloves/clothing and eye/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

If eye irritation persists: Get medical advice/attention

Skin

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

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

Wash contaminated clothing before reuse

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

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 container tightly closed

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)
2-Heptanone	110-43-0	10 - 30%	-	-
Titanium dioxide	13463-67-7	7 - 13%	-	-
Barium sulfate	7727-43-7	7 - 13%	-	-
4-Chlorobenzotrifluoride	98-56-6	7 - 13%	-	-
Silica, amorphous, fumed	112945-52-5	1 - 5%	-	-
n-Butyl acetate	123-86-4	1 - 5%	-	-
Decanedioic acid,	41556-26-7	0.25 - 0.5%	-	-
bis(1,2,2,6,6-pentamethyl-4-pip eridinyl) ester				
Silica, crystalline	14808-60-7	0.1 - 0.25%	-	-
Ethyl benzene	100-41-4	0.1 - 0.25%	-	-
2-(Hydroxyethyl)Methacrylate	868-77-9	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

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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

removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Wash clothing before reuse. Destroy contaminated articles such as shoes.

Inhalation Move to fresh air. If symptoms persist, call a physician.

If not breathing, give artificial respiration. Call a physician

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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-AidersUse personal protective equipment.

Most Important Symptoms/Effects

May cause allergic skin reaction.

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) 98
Flash Point (°C) 37
Method PMCC

Flammability Limits In Air

Lower flammability limit:No data availableUpper flammability limit:No data available

NFPA

1 **Health hazards 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

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protective equipment.

Prevent further leakage or spillage if safe to do so. Do not Other Information

> 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.

Dam up. Soak up with inert absorbent material. Use a Methods for Cleaning Up 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.

Keep containers tightly closed in a dry, cool and **Storage**

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

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of children.

Incompatible with strong acids and bases and strong **Incompatible Materials**

oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Chemical name	ACGIH TLV	Alberta	British Columbia	Ontario	Quebec
2-Heptanone	TWA: 50 ppm	50 ppm - TWA 233 mg/m³ - TWA	50 ppm - TWA	25 ppm - TWA 115 mg/m³ - TWA	50 ppm - TWAEV 233 mg/m³ - TWAEV
Titanium dioxide	TWA: 0.2 mg/m³ nanoscale respirable particulate matter TWA: 2.5 mg/m³ finescale respirable particulate matter	10 mg/m³ - TWA	10 mg/m³ - TWA 3 mg/m³ - TWA	10 mg/m³ - TWA	10 mg/m³ - TWAEV
Barium sulfate	TWA: 5 mg/m³ inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica TWA: 0.5 mg/m³ Ba As Barium soluble compounds [RR-00049-7]	10 mg/m³ - TWA	5 mg/m³ - TWA	5 mg/m³ - TWA	10 mg/m³ - TWAEV 5 mg/m³ - TWAEV
4-Chlorobenzotrifluoride	TWA: 2.5 mg/m³ F As Fluorides [RR-02792-9] TWA: 2.5 mg/m³ F	2.5 mg/m³ - TWA	2.5 mg/m³ - TWA	2.5 mg/m³ - TWA	2.5 mg/m ³ - TWAEV
n-Butyl acetate	STEL: 150 ppm TWA: 50 ppm	150 ppm - TWA 713 mg/m³ - TWA 200 ppm - STEL 950 mg/m³ - STEL	20 ppm - TWA	150 ppm - TWA 200 ppm - STEL	150 ppm - TWAEV 713 mg/m³ - TWAEV 200 ppm - STEV 950 mg/m³ - STEV
Silica, crystalline	TWA: 0.025 mg/m³ respirable particulate matter	TWA: 0.025 mg/m ³	TWA: 0.025 mg/m ³	TWA: 0.10 mg/m ³	TWA: 0.1 mg/m ³
Ethyl benzene	Ototoxicant - potential to cause hearing disorders TWA: 20 ppm	100 ppm - TWA 434 mg/m³ - TWA 125 ppm - STEL 543 mg/m³ - STEL	20 ppm - TWA	20 ppm - TWA	100 ppm - TWAEV 434 mg/m³ - TWAEV 125 ppm - STEV 543 mg/m³ - 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 Tightly fitting safety goggles If splashes are likely to occur,

wear: Safety glasses with side-shields

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

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thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid Odor solvent

Odor Threshold No information available

Density (lbs./gal) 10.9 - 11.3 **Specific Gravity** 1.30 - 1.35

pH No information available

Viscosity (cps)No information availableSolubility(ies)No information availableWater solubilityNo information availableEvaporation RateNo information availableVapor pressure @20 °C (kPa)No information available

Relative vapor density

No information available

 Wt. % Solids
 65 - 75

 Vol. % Solids
 55 - 65

 Wt. % Volatiles
 25 - 35

 Vol. % Volatiles
 35 - 45

 VOC Regulatory Limit (g/L)
 < 250</td>

 Rolling Point (°F)
 253

Boiling Point (°F)

Boiling Point (°C)

Freezing point (°F)

253

122

No in

Freezing point (°F)

Freezing Point (°C)

No information available
No information available

Flash point (°F) 98
Flash Point (°C) 37
Method PMCC
Flammability (solid, gas) Not applicable

Upper flammability limit:Not applicableLower flammability limit:Not applicableAutoignition Temperature (°F)No information availableAutoignition Temperature (°C)No information available

Decomposition Temperature (°F)

Decomposition Temperature (°C)

Partition coefficient

No information available
No information available

10. STABILITY AND REACTIVITY

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Reactivity Not Applicable

Stable under normal conditions. Hazardous polymerisation **Chemical Stability**

does not occur.

Conditions to avoid Keep away from open flames, hot surfaces, static

electricity and sources of ignition. Sparks. Elevated

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temperature.

Incompatible with strong acids and bases and strong **Incompatible Materials**

oxidizing agents.

Thermal decomposition can lead to release of irritating **Hazardous Decomposition Products**

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

Contact with eyes may cause irritation. **Eve contact**

Skin contact May cause skin irritation and/or dermatitis. Prolonged skin

contact may defat the skin and produce dermatitis.

Harmful by inhalation. High vapor / aerosol concentrations Inhalation

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.

May cause an allergic skin reaction.

Sensitization

Neurological Effects No information available. No information available. **Mutagenic Effects Reproductive Effects** No information available.

Developmental Effects Target organ effects STOT - single exposure

STOT - repeated exposure

Other adverse effects Aspiration Hazard No information available. No information available.

May cause disorder and damage to the, Respiratory

system, Central nervous system.

Causes damage to organs through prolonged or repeated

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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) 8349 mg/kg
ATEmix (inhalation-dust/mist) 9.6 mg/l
ATEmix (inhalation-vapor) 70.5 mg/l

Component Information

Caution - This mixture contains a substance not yet fully tested

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-Heptanone 110-43-0	= 1600 mg/kg (Rat)	= 12.6 mL/kg (Rabbit) = 12600 µL/kg (Rabbit)	>16.7 mg/L
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Barium sulfate 7727-43-7	= 307000 mg/kg (Rat)	-	-
4-Chlorobenzotrifluoride 98-56-6	= 13 g/kg (Rat)	> 3300 mg/kg (Rabbit)	= 33 mg/L (Rat)4 h
Silica, amorphous, fumed 112945-52-5	= 3160 mg/kg (Rat)	-	-
n-Butyl acetate 123-86-4	= 10768 mg/kg (Rat)	> 17600 mg/kg (Rabbit)	-
Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidi nyl) ester 41556-26-7	= 2615 mg/kg(Rat)	-	-
Ethyl benzene 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h
2-(Hydroxyethyl)Methacrylate 868-77-9	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-

Chronic Toxicity

Carcinogenicity

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

Chemical name	IARC	NTP	
	2B - Possible Human Carcinogen		
Titanium dioxide			
	2B - Possible Human Carcinogen		
4-Chlorobenzotrifluoride			
	1 - Human Carcinogen	Known	
Silica, crystalline			

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	2B - Possible Human Carcinogen	
Ethyl benzene		

- Crystalline Silica has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint.
- 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.)

Ethyl benzene

PLLF BAGE

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.

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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

Description UN1263, Paint, 3, III

ICAO / IATA Contact the preparer for further information.

IMDG / IMOContact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

TSCA: United StatesYes - All components are listed or exempt.

Yes - All components are listed or exempt.

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National Pollutant Release Inventory (NPRI)

NPRI Parts 1-4

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

Chemical name	CAS No	Weight-%	NPRI Parts 1- 4
Ethyl benzene	100-41-4	0.1 - 0.25%	Listed
2-Butoxyethanol	111-76-2	0.1 - 0.25%	Listed

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

Chemical name	CAS No	Weight-%	NPRI Part 5
n-Butyl acetate	123-86-4	1 - 5%	Listed
2-Butoxyethanol	111-76-2	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 1
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

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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.

Prepared By Product Stewardship Department

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 800-225-5554

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Disclaimer

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End of Safety Data Sheet