

Revision Date: 29-Aug-2023

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Product Code Alternate Product Code Product Class Color Recommended use Restrictions on use

HP5700-7B UA467B FINISH COATING All Paint

HP DTM MASTIC URETHANE GLOSS - TINTABLE WHITE

No information available

<u>Manufacturer</u> 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)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization	Category 1A
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 3

Label elements

Danger

Hazard statements May cause an allergic skin reaction 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 Flammable liquid and vapor

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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 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 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 **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

Hazards not otherwise classified (HNOC) Not applicable

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-%
Titanium dioxide	13463-67-7	20 - 25
2-Heptanone	110-43-0	15 - 20
Barium sulfate	7727-43-7	10 - 15
n-Butyl acetate	123-86-4	1 - 5
Silica amorphous	7631-86-9	1 - 5
Xylene	1330-20-7	1 - 5
Ethyl benzene	100-41-4	0.1 - 0.5
Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester	41556-26-7	0.1 - 0.5
Silica, crystalline	14808-60-7	0.1 - 0.5
2-(Hydroxyethyl)Methacrylate	868-77-9	0.1 - 0.5
Trimethylolpropane	77-99-6	0.1 - 0.5

4. FIRST AID MEASURES

Description of 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 while 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 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	
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) Flash Point (°C) Method	98 37 PMCC
Flammability Limits In Air	
Lower flammability limit: Upper flammability limit:	No data available No data available
NFPA Health hazards Flammability Stability Special: NFPA Legend 0 - Not Hazardous 1 - Slightly	2 3 0 Not Applicable

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.
Technical measures/Precaution	ns Ensure adequate ventilation. Use only where airflow will keep vapors from building up in or near the work area in adjoining rooms. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing and disposal of flammable liquids.
	Dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. All equipment should be non-sparking and explosion proof. Use explosion proof electrical equipment for ventilation, lighting and material handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL
Titanium dioxide	TWA: 0.2 mg/m ³ nanoscale respirable particulate matter TWA: 2.5 mg/m ³ finescale respirable particulate matter	15 mg/m³ - TWA
2-Heptanone	TWA: 50 ppm	100 ppm - TWA 465 mg/m³ - TWA

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TWA: 5 mg/m ³ inhalable particulate	15 mg/m³ - TWA
matter, particulate matter containing no	5 mg/m³ - TWA
asbestos and <1% crystalline silica	
TWA: 0.5 mg/m ³ Ba As Barium soluble	
compounds [RR-00049-7]	
STEL: 150 ppm	150 ppm - TWA
TWA: 50 ppm	710 mg/m³ - TWA
-	20 mppcf - TWA
TWA: 20 ppm	100 ppm - TWA
	435 mg/m³ - TWA
Ototoxicant - potential to cause hearing	100 ppm - TWA
disorders	435 mg/m ³ - TWA
TWA: 20 ppm	5
TWA: 0.025 mg/m ³ respirable	TWA: 50 μg/m ³
	TWA: 50 µg/m³ Čexcludes
	construction work, agricultural
	operations, and exposures that result
	from the processing of sorptive clays
	(vacated) TWA: 0.1 mg/m ³ respirable
	dust
	: (250)/(%SiO2 + 5) mppcf TWA
	respirable fraction
	: (10)/(%SiO2 + 2) mg/m ³ TWA
	respirable fraction
	matter, particulate matter containing no asbestos and <1% crystalline silica TWA: 0.5 mg/m³ Ba As Barium soluble compounds [RR-00049-7] STEL: 150 ppm TWA: 50 ppm TWA: 20 ppm Ototoxicant - potential to cause hearing

Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits OSHA - Occupational Safety & Health Administration Exposure Limits N/E - Not Established

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective	e Equipment

Eye/Face Protection	Tightly fitting safety goggles. Safety glasses with side-shields. If splashes are likely
	to occur, wear:.
Skin Protection	Long sleeved clothing. Protective gloves.
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 MeasuresAvoid contact with skin, eyes and clothing. Remove and wash contaminated
clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor Odor Threshold Density (Ibs./gal) liquid solvent No information available 11.4 - 11.8

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Specific Gravity	1.36 - 1.42
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	75 - 85
Vol. % Solids	60 - 70
Wt. % Volatiles	15 - 25
Vol. % Volatiles	30 - 40
VOC Regulatory Limit (g/L)	< 250
Boiling Point (°F)	223
Boiling Point (°C)	106
Freezing point (°F)	No information available
Freezing Point (°C)	No information available
Flash point (°F)	98
Flash Point (°C)	37
Method	PMCC
Flammability (solid, gas)	Not applicable
Upper flammability limit:	No data available
Lower flammability limit:	No data available
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	No data available
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.

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 physic	cal, 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 Skin contact	Contact with eyes may cause irritation. May cause skin irritation and/or dermatitis. Prolonged skin contact may defat the skin and produce dermatitis.	
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.	
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.	
Sensitization	May cause an allergic skin reaction	
Neurological Effects	No information available. No information available.	
Mutagenic Effects 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 - repeated exposure	Causes damage to organs through prolonged or repeated exposure if inhaled,	
	Causes damage to organs through prolonged or repeated exposure. May cause disorder and damage to the, Respiratory system, Central nervous	
STOT - single exposure	system.	
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)	7769 mg/kg
ATEmix (inhalation-dust/mist)	9.1 mg/l
ATEmix (inhalation-vapor)	68.8 mg/l

<u>Component Information</u> 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)	-	-

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2-Heptanone 110-43-0	= 1600 mg/kg (Rat)	= 12.6 mL/kg (Rabbit) = 12600 µL/kg (Rabbit)	>16.7 mg/L
Barium sulfate 7727-43-7	= 307000 mg/kg (Rat)	-	-
n-Butyl acetate 123-86-4	= 10768 mg/kg(Rat)	> 17600 mg/kg (Rabbit)	-
Silica amorphous 7631-86-9	= 7900 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Xylene 1330-20-7	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)	= 29.08 mg/L (Rat)4 h
Ethyl benzene 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat)4 h
Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidi nyl) ester 41556-26-7	= 2615 mg/kg (Rat)	-	-
2-(Hydroxyethyl)Methacrylate 868-77-9	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
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	OSHA
	2B - Possible Human		Listed
Titanium dioxide	Carcinogen		
	2B - Possible Human		Listed
Ethyl benzene	Carcinogen		
	1 - Human Carcinogen	Known	Х
Silica, crystalline			

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 classified

Component Information

Acute Toxicity to Fish

<u>Titanium dioxide</u> LC50: > 1000 mg/L (Fathead Minnow - 96 hr.) <u>n-Butyl acetate</u> LC50: 18 mg/L (Fathead Minnow - 96 hr.) <u>Xylene</u> LC50: 13.5 mg/L (Rainbow Trout - 96 hr.) <u>Ethyl benzene</u> LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

<u>n-Butyl acetate</u> EC50: 72.8 mg/L (Daphnia magna - 48 hr.) <u>Ethyl benzene</u> EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

Acute Toxicity to Aquatic Plants

<u>n-Butyl acetate</u> EC50: 674.7 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.) <u>Ethyl benzene</u> 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 Transport hazard class(es) UN-No Packing Group Description	Paint 3 UN1263 III UN1263, Paint, 3, III
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.

Federal Regulations

SARA 311/312 Hazard Categories

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-%	CERCLA/SARA 313 (de minimis concentration)
Barium sulfate	7727-43-7	10 - 15	1.0
Xylene	1330-20-7	1 - 5	1.0
Ethyl benzene	100-41-4	0.1 - 0.5	0.1

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

Chemical name	CAS No	Weight-%	Hazardous Air Pollutant (HAP)
Xylene	1330-20-7	1 - 5	Listed

Eth	yl benzene	100-41-4	0.1 - 0.5	Listed

US State Regulations

California Proposition 65

WARNING: This product can expose you to chemicals including Titanium dioxide, which are known to the State of California to cause cancer, and Toluene which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

U.S. State Right-to-Know

Regulations			
Chemical name	Massachusetts	New Jersey	Pennsylvania
Titanium dioxide	Х	Х	Х
2-Heptanone	Х	Х	Х
Barium sulfate	Х	Х	Х
n-Butyl acetate	Х	Х	Х
Silica amorphous	Х		Х
Xylene	Х	Х	Х
Silica, crystalline	X	X	X

Legend

X - Listed

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 contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By	Product Stewardship Department Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 800-225-5554
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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