



Revision Date: 04-May-2022

**Revision Number:** 2

1. PRODUCT AND COMPANY IDENTIFICATION

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

### Manufacturer

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 Phone: 1-866-708-9180 www.benjaminmoore.com/Corotech

## COROTECH DTM MASTIC URETHANE SATIN BLACK

V572-80 V57280 FINISH COATING Black Industrial paint No information available

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

## Label elements

## Danger

#### Hazard statements Causes skin irritation Causes serious eye irritation

May cause an allergic skin reaction May cause cancer May cause respiratory irritation



## **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/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool Wear protective gloves/protective clothing/eye protection/face protection

## **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

## Eyes

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 victim to fresh air and keep at rest in a position 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

## Hazards not otherwise classified (HNOC)

Not applicable

## Other information

No information available

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

**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.

# 3. COMPOSITION INFORMATION ON COMPONENTS

Chemical name	CAS No.	Weight-%
2-Heptanone	110-43-0	15 - 20
Barium sulfate	7727-43-7	15 - 20
4-Chlorobenzotrifluoride	98-56-6	10 - 15
Propylene glycol monomethyl ether acetate	108-65-6	1 - 5
n-Butyl acetate	123-86-4	1 - 5
Carbon black	1333-86-4	1 - 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
1,2-Ethanediamine, polymer with aziridine, N-[3-[(2-ethylhexyl)oxy]-3-oxopropyl] derivatives, compounds with polyethylene-polypropylene glycol monobutyl ether phosphate	398475-96-2	0.1 - 0.5
2-Butoxyethanol	111-76-2	0.1 - 0.5
Ethyl benzene	100-41-4	0.1 - 0.5
2-(Hydroxyethyl)Methacrylate	868-77-9	0.1 - 0.5
Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester	82919-37-7	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 ski	n reaction.	
Notes To Physician	Treat symptomatically.		
	5. FIRE-FIGHT	ING 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 prec	autions for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	
Hazardous combustion produc	ts	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 impa	ct	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:		Not available Not available	
NFPA Health: 2	Flammability: 3	Instability: 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.

StorageKeep containers tightly closed in a dry, cool and well-ventilated place. Keep away<br/>from heat. Keep away from open flames, hot surfaces and sources of ignition.<br/>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/Precautions 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
2-Heptanone	TWA: 50 ppm	100 ppm - TWA
		465 mg/m <sup>3</sup> - TWA
Barium sulfate	TWA: 5 mg/m <sup>3</sup> inhalable particulate	15 mg/m³ - TWA
	matter, particulate matter containing no	5 mg/m³ - TWA
	asbestos and <1% crystalline silica	
4-Chlorobenzotrifluoride	TWA: 2.5 mg/m <sup>3</sup> F	2.5 mg/m <sup>3</sup> - TWA
n-Butyl acetate	STEL: 150 ppm	150 ppm - TWA
	TWA: 50 ppm	710 mg/m³ - TWA
Carbon black	TWA: 3 mg/m <sup>3</sup> inhalable particulate	3.5 mg/m³ - TWA
	matter	
Silica, crystalline	TWA: 0.025 mg/m <sup>3</sup> respirable	50 µg/m <sup>3</sup> - TWA Respirable crystalline
	particulate matter	silica 50 µg/m³ - TWA
		-
2-Butoxyethanol	TWA: 20 ppm	50 ppm - TWA
		240 mg/m³ - TWA
		prevent or reduce skin absorption
Ethyl benzene	TWA: 20 ppm	100 ppm - TWA
		435 mg/m <sup>3</sup> - TWA

#### 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 Equipment	
Eye/Face Protection	Safety glasses with side-shields. If splashes are likely to occur, wear:. Tightly fitting safety goggles.
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 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

#### V572-80 - COROTECH DTM MASTIC URETHANE SATIN BLACK

Odor **Odor Threshold** Density (lbs/gal) **Specific Gravity** bН Viscosity (cps) Solubility(ies) Water solubility **Evaporation Rate** Vapor pressure Vapor density Wt. % Solids Vol. % Solids Wt. % Volatiles Vol. % Volatiles VOC Regulatory Limit (g/L) Boiling Point (°F) **Boiling Point (°C)** Freezing point (°F) Freezing Point (°C) Flash point (°F) Flash Point (°C) Method Flammability (solid, gas) **Upper flammability limit:** Lower flammability limit: Autoignition Temperature (°F) Autoignition Temperature (°C) **Decomposition Temperature (°F) Decomposition Temperature (°C) Partition coefficient** 

solvent No information available 10.15 - 10.25 1.22 - 1.24 No information available 60 - 70 50 - 60 30 - 40 40 - 50 < 250 253 123 No information available No information available 98 37 PMCC Not applicable No information available 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.

# 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.			
Mutagenic Effects Reproductive Effects	No information available. No information available.			
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.			
STOT - single exposure	May cause disorder and damage to the, Respiratory system, Central nervous 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)	7417 mg/kg
ATEmix (inhalation-dust/mist)	8.8 mg/L
ATEmix (inhalation-vapor)	64.6 mg/L

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50

T			
2-Heptanone	= 1600 mg/kg (Rat)	= 12.6 mL/kg (Rabbit) = 12600	>16.7 mg/L
110-43-0		μL/kg (Rabbit)	
Barium sulfate	= 307000 mg/kg (Rat)	-	-
7727-43-7	· ·		
4-Chlorobenzotrifluoride	= 13 g/kg (Rat)	> 3300 mg/kg (Rabbit)	= 33 mg/L (Rat) 4 h
98-56-6			
Propylene glycol monomethyl ether	= 8532 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
acetate			
108-65-6			
n-Butyl acetate	= 10768 mg/kg (Rat)	> 17600 mg/kg (Rabbit)	-
123-86-4			
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
1333-86-4		ŰŰŸ,	
Decanedioic acid,	= 2615 mg/kg (Rat)	-	-
bis(1,2,2,6,6-pentamethyl-4-piperidi	6 6 ( <i>'</i>		
nyl) ester			
41556-26-7			
2-Butoxyethanol	= 1300 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 4.9 mg/L (Rat) 3H
111-76-2	5 5 V )	5 5 V /	<b>3</b> ( )
Ethyl benzene	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat)4 h
100-41-4	3 3 4 7	<u> </u>	÷ ( )
2-(Hydroxyethyl)Methacrylate	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
868-77-9	3 3 4 7		

## 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
4-Chlorobenzotrifluoride	Carcinogen		
	2B - Possible Human		Listed
Carbon black	Carcinogen		
	1 - Human Carcinogen	Known Human	Listed
Silica, crystalline		Carcinogen	
	2B - Possible Human		Listed
Ethyl benzene	Carcinogen		

• 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.

#### 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

<u>n-Butyl acetate</u> LC50: 18 mg/L (Fathead Minnow - 96 hr.) <u>2-Butoxyethanol</u> LC50: 1490 mg/L (Bluegill sunfish - 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

DOT	
Proper Shipping Name	PAINT
Hazard class	3
UN-No.	UN1263
Packing Group	III
Description	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 hazardous categorization

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 Barium sulfate Ethyl benzene	<u>CAS No.</u> 7727-43-7 100-41-4	<u>Weight-%</u> 15 - 20 0.1 - 0.5	CERCLA/SARA 313 (de minimis concentration) 1.0 0.1
Clean Air Act, Section 112 Hazard This product contains the following H		<u>s) (see 40 CFR 61)</u>	
This product contains the following P	IAF5.		
Chemical name	CAS No.	Weight-%	Hazardous Air Pollutant (HAP)
2-Butoxyethanol	111-76-2	0.1 - 0.5	Listed
Ethyl benzene	100-41-4	0.1 - 0.5	Listed

## US State Regulations

## California Proposition 65

**WARNING:** This product can expose you to chemicals including Crystalline Silica, 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.

## State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania
2-Heptanone	X	X	X
Barium sulfate	X	X	X
4-Chlorobenzotrifluoride		X	
n-Butyl acetate	X	X	X
Carbon black	X	X	X
Silica, crystalline	X	X	X
2-Butoxyethanol	X	X	X

#### Legend

X - Listed

# **16. OTHER INFORMATION**

<u>HMIS</u> -	Health: 2*	Flammability: 3	Reactivity: 0	PPE: -
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## 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

Revision Date: Revision Summary 04-May-2022 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**