



Revision Date: 17-Oct-2023 Revision Number: 5

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name WATERBORNE AMINE EPOXY WHITE

Product Code V440-01
Alternate Product Code V44001

Product Class WATERBORNE EPOXY

Color White

Recommended use Industrial paint

Restrictions on use No information available

Manufacturer

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645

Phone: 1-866-708-9180

www.benjaminmoore.com/Corotech

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 1
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Danger

Hazard statements

Causes skin irritation

Causes serious eye damage

May cause cancer

Causes damage to organs

Causes damage to organs through prolonged or repeated exposure



Appearance liquid

Odor little or no odor

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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

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

Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF exposed: Call a POISON CENTER or doctor

Eyes

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

Continue rinsing

Immediately call a POISON CENTER or doctor/physician

Skin

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

Precautionary Statements - Storage

Store locked up

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-%
Γ	Titanium dioxide	13463-67-7	20 - 25

Aliphatic polyamine	U84660-00-1	15 - 20
Silica, crystalline	14808-60-7	5 - 10
2-Propoxyethanol	2807-30-9	1 - 5
2-Butoxyethanol	111-76-2	1 - 5
Dipropylene glycol monomethyl ether	34590-94-8	1 - 5

4. FIRST AID MEASURES

General Advice Immediately call a POISON CENTER or doctor/physician.

Eye Contact Immediate medical attention is required. Immediately flush with plenty of water.

After initial flushing, remove any contact lenses and continue flushing for at least

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15 minutes. Keep eye wide open while rinsing.

Skin Contact Immediate medical attention is required. Wash off immediately with soap and

plenty of water while removing all contaminated clothes and shoes. Wash clothing

before reuse.

Inhalation Call a physician or poison control center immediately. Move to fresh air. If not

breathing, give artificial respiration.

Ingestion Never give anything by mouth to an unconscious person. Immediate medical

attention is required. Drink 1 or 2 glasses of water. Do not induce vomiting without

medical advice.

Protection Of First-AidersUse personal protective equipment.

Most Important Symptoms/Effects None known.

Notes To Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear.

Specific Hazards Arising From The Chemical Closed containers may rupture if exposed to fire or

extreme heat.

Sensitivity to mechanical impact No

Sensitivity to static discharge No

Flash Point Data

Flash point (°F)

Flash Point (°C)

Method

Not Applicable

Not applicable

Not applicable

Flammability Limits In Air

Lower flammability limit:Not applicableUpper flammability limit:Not applicable

NFPA

Health hazards 2
Flammability 0
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 Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Other Information Prevent further leakage or spillage if safe to do so.

Environmental precautions See Section 12 for additional Ecological Information.

Methods for Cleaning Up Soak up with inert absorbent material. Sweep up and shovel into suitable

containers for disposal.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or

sanding dust. In case of insufficient ventilation, wear suitable respiratory

equipment.

Storage Keep container tightly closed. Keep out of the reach of children.

Incompatible MaterialsNo information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL
Titanium dioxide	TWA: 0.2 mg/m³ nanoscale respirable particulate matter TWA: 2.5 mg/m³ finescale respirable particulate matter	15 mg/m³ - TWA
Silica, crystalline	TWA: 0.025 mg/m³ respirable particulate matter	TWA: 50 μg/m³ TWA: 50 μg/m³ excludes construction work, agricultural

		operations, and exposures that result
		from the processing of sorptive clays
		(vacated) TWA: 0.1 mg/m³ respirable
		dust
		: (250)/(%SiO2 + 5) mppcf TWA
		respirable fraction
		: (10)/(%SiO2 + 2) mg/m ³ TWA
		respirable fraction
2-Butoxyethanol	TWA: 20 ppm	TWA: 50 ppm
		TWA: 240 mg/m ³
		(vacated) TWA: 25 ppm
		(vacated) TWA: 120 mg/m ³
		(vacated) S*
		S*
Dipropylene glycol monomethyl ether	TWA: 50 ppm	100 ppm - TWA
		600 mg/m ³ - TWA
		prevent or reduce skin absorption

Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits OSHA - Occupational Safety & Health Administration 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.

Skin Protection Protective gloves and impervious clothing.

Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment.

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 little or no odor

Odor Threshold No information available

Density (lbs./gal) 11.1 - 11.5 **Specific Gravity** 1.33 - 1.38

pH No information available

Viscosity (cps)No information availableSolubility(ies)No information availableWater solubilityNo information availableEvaporation RateNo information available

Vapor pressure @20 °C (kPa)No information availableRelative vapor densityNo information available

50 - 60 Wt. % Solids Vol. % Solids 30 - 40 Wt. % Volatiles 40 - 50 60 - 70 Vol. % Volatiles **VOC Regulatory Limit (g/L)** < 250 **Boiling Point (°F)** 212 **Boiling Point (°C)** 100 Freezing point (°F) 32

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Freezing Point (°C) 0

Flash point (°F)

Flash Point (°C)

Method

Flammability (solid, gas)

Upper flammability limit:

Lower flammability limit:

Not applicable

Not applicable

Not applicable

Not applicable

Autoignition Temperature (°F)No information availableAutoignition Temperature (°C)No information availableDecomposition Temperature (°C)No information availablePartition coefficientNo information available

10. STABILITY AND REACTIVITY

Reactivity Not Applicable

Chemical Stability Stable under normal conditions.

Conditions to avoid Prevent from freezing.

Incompatible MaterialsNo materials to be especially mentioned.

Hazardous Decomposition Products

None under normal 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 No information available

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 Causes eye irritation. Risk of serious damage to eyes. May cause burns. Severely

irritating to eyes.

Skin contact Irritating to skin. Prolonged skin contact may cause skin irritation and/or dermatitis.

May cause burns.

Inhalation Harmful by inhalation. Causes respiratory tract irritation. Vapours may be irritating

to eyes, nose, throat, and lungs. May cause additional affects as listed under

"Ingestion".

Ingestion Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea,

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vomiting and diarrhea. Can burn mouth, throat, and stomach.

SensitizationNo information availableNeurological EffectsNo information availableMutagenic EffectsNo information availableReproductive EffectsNo information availableDevelopmental EffectsNo information available

Target organ effects Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Blood,

hematopoietic system, Lungs.

STOT - single exposure

May cause disorder and damage to the. Respiratory system. Digestive System.

Causes damage to organs through prolonged or repeated exposure if inhaled.

Causes damage to organs through prolonged or repeated exposure if swallowed.

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kidney.

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

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 2071 mg/kg
ATEmix (dermal) 12911 mg/kg
ATEmix (inhalation-dust/mist) 7.9 mg/l
ATEmix (inhalation-vapor) 286.1 mg/l

Component Information Caution - This mixture contains a substance not yet fully tested

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide	> 10000 mg/kg (Rat)	-	-
13463-67-7			
2-Propoxyethanol	= 3089 mg/kg (Rat)	= 870 mg/kg (Rabbit) = 960 μ L/kg	= 1530 ppm (Rat) 7 h
2807-30-9		(Rabbit)	
2-Butoxyethanol	= 1300 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 4.9 mg/L (Rat) 3H
111-76-2			
Dipropylene glycol monomethyl	= 5.35 g/kg (Rat)	= 9500 mg/kg (Rabbit)	-
ether			
34590-94-8			ļ

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		
	1 - Human Carcinogen	Known	X
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 applicable

Component Information

Acute Toxicity to Fish

Titanium dioxide

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

2-Butoxyethanol

LC50: 1490 mg/L (Bluegill sunfish - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

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.

14. TRANSPORT INFORMATION

DOT Not regulated

ICAO / IATA Not regulated

IMDG / IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA: United States DSL: CanadaYes - All components are listed or exempt.
Yes - All components are listed or exempt.

Federal Regulations

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
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)
2-Propoxyethanol	2807-30-9	1 - 5	1.0
2-Butoxyethanol	111-76-2	1 - 5	1.0
Dipropylene glycol monomethyl ether	34590-94-8	1 - 5	1.0

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

This product contains the following HAPs:

Chemical name	CAS No	<u>Weight-%</u>	Hazardous Air Pollutant (HAP)
2-Propoxyethanol	2807-30-9	1 - 5	Listed
2-Butoxyethanol	111-76-2	1 - 5	Listed
Dipropylene glycol monomethyl ether	34590-94-8	1 - 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 Ethylene glycol 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
Water			X
Titanium dioxide	X	X	X
Silica, crystalline	X	X	X
2-Propoxyethanol		X	X
2-Butoxyethanol	X	X	X
Dipropylene glycol monomethyl ether	Χ	X	X

Legend

X - Listed

16. OTHER INFORMATION

HMIS

Health hazards 2*
Flammability 0
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

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Disclaimer

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End of Safety Data Sheet