



Revision Date: 10-Jan-2019 **Revision Number: 2** 

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** WATERBORNE AMINE EPOXY TINT BASE **Product Code** V440-86FR

A44086 **Alternate Product Code** 

**Product Class** WATERBORNE EPOXY ΑII

Color

Industrial paint Recommended use

No information available Restrictions on use

**Manufactured For** 

corotechcoatings.ca

Benjamin Moore & Co., Limited 8775 Keele Street Concord ON L4K 2N1 Phone: 1-800-361-5898

**Manufacturer** Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 Phone: 1-866-708-9180 corotechcoatings.com

**Emergency Telephone** CANUTEC: 613-996-6666

#### 2. HAZARDS IDENTIFICATION

# Classification

This chemical is considered hazardous by the Hazardous Products Regulations (HPR: SOR/2015-17)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

#### Label elements

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#### Danger

#### Hazard statements

Harmful if swallowed

Causes skin irritation

Causes serious eye damage

May cause cancer

Suspected of damaging fertility or the unborn child

Causes damage to organs

Causes damage to organs through prolonged or repeated exposure



Appearance liquid Odor little or no odor

## **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 eat, drink or smoke when using this product

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

# **Precautionary Statements - Response**

IF exposed: Call a POISON CENTER or doctor/physician

#### 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

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

No information available

### Other hazards

**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-%	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%	-	-
Aliphatic polyamine	-	10 - 30%	HMRIC #9649	Granted: April 21, 2016
Silica, crystalline	14808-60-7	10 - 30%	-	-
2-Propoxyethanol	2807-30-9	1 - 5%	-	-
2-Butoxyethanol	111-76-2	1 - 5%	-	-
Dipropylene glycol monomethyl ether	34590-94-8	1 - 5%	-	-
Silica, amorphous	7631-86-9	1 - 5%	-	-
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	0.1 - 0.25%	-	-

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

# 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 15

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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-Aiders

Use personal protective equipment.

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**BASE** 

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)

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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

Flammability Limits In Air

Lower flammability limit:

Upper flammability limit:

Not applicable

Not applicable

NFPA Health: 2 Flammability: 0 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 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

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ventilation, wear suitable respiratory equipment.

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

children.

Incompatible Materials No information available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Limits**

1	Chemical name	ACGIH TLV	Alberta	British Columbia	Ontario	Quebec
Γ	Titanium dioxide	10 mg/m <sup>3</sup> - TWA	10 mg/m <sup>3</sup> - TWA	10 mg/m <sup>3</sup> - TWA	10 mg/m³ - TWA	10 mg/m <sup>3</sup> - TWAEV
L				3 mg/m³ - TWA		
	Silica, crystalline	0.025 mg/m <sup>3</sup> - TWA	0.025 mg/m <sup>3</sup> - TWA	0.025 mg/m <sup>3</sup> - TWA	0.10 mg/m <sup>3</sup> - TWA	0.1 mg/m <sup>3</sup> - TWAEV
T	2-Propoxyethanol	N/E	N/E	N/E	25 ppm - TWA	N/E
					110 mg/m³ - TWA	
- 1					Danger of cutaneous	
L					absorption	
- [	2-Butoxyethanol	20 ppm - TWA	20 ppm - TWA	20 ppm - TWA	20 ppm - TWA	20 ppm - TWAEV
L			97 mg/m³ - TWA			97 mg/m³ - TWAEV
	Dipropylene glycol	100 ppm - TWA	100 ppm - TWA	100 ppm - TWA	100 ppm - TWA	100 ppm - TWAEV
- [	monomethyl ether	150 ppm - STEL	606 mg/m³ - TWA	150 ppm - STEL	150 ppm - STEL	606 mg/m <sup>3</sup> - TWAEV
- [		Skin	150 ppm - STEL	Skin absorption can	Danger of cutaneous	150 ppm - STEV
- [			909 mg/m <sup>3</sup> - STEL	contribute to overall	absorption	909 mg/m³ - STEV
			Substance may be	exposure.		Skin absorption can
- 1			readily absorbed			contribute to overall
			through intact skin			exposure.

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** 

**Skin Protection** 

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 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

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**BASE** 

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Appearance liquid

Odor little or no odor

Odor Threshold No information available

**Density (lbs/gal)** 11.45 - 11.55 **Specific Gravity** 1.37 - 1.39

pH
 Viscosity (cps)
 Solubility(ies)
 No information available
 No information available

Water solubility

Evaporation Rate

Vapor pressure @20 °C (kPa)

No information available
No information available
No information available

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

 Wt. % Solids
 50 - 60

 Vol. % Solids
 35 - 45

 Wt. % Volatiles
 40 - 50

 Vol. % Volatiles
 55 - 65

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

 Boiling Point (°F)
 212

 Boiling Point (°C)
 100

Boiling Point (°F)212Boiling Point (°C)100Freezing Point (°F)32Freezing Point (°C)0Flash Point (°F)Not applicable

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 (°F)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 Materials No 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** 

BASE

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".

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Ingestion Harmful if swallowed. Ingestion may cause gastrointestinal

irritation, nausea, vomiting and diarrhea. Can burn mouth,

throat, and stomach.

SensitizationNo information available.Neurological EffectsNo information available.Mutagenic EffectsNo 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. Digestive System.

STOT - repeated exposure Causes damage to organs through prolonged or repeated

exposure if inhaled. Causes damage to organs through prolonged or repeated exposure if swallowed. 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) 1347 mg/kg
ATEmix (dermal) 13175 mg/kg
ATEmix (inhalation-dust/mist) 8.2 mg/L
ATEmix (inhalation-vapor) 361.9 mg/L

# **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Silica, crystalline 14808-60-7	= 500 mg/kg (Rat)	-	-

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2-Propoxyethanol 2807-30-9	= 3089 mg/kg (Rat)	= 870 mg/kg ( Rabbit ) = 960 μL/kg ( Rabbit )	= 1530 ppm (Rat) 7 h
2-Butoxyethanol 111-76-2	= 1300 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	> 4.9 mg/L (Rat) 3H
Dipropylene glycol monomethyl ether 34590-94-8	= 5400 μL/kg(Rat)	= 9500 mg/kg ( Rabbit )	-
Silica, amorphous 7631-86-9	> 5000 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	> 2.2 mg/L (Rat)1 h
Distillates (petroleum), solvent-refined light paraffinic 64741-89-5	> 15 g/kg(Rat)	> 5 g/kg(Rabbit)	= 2.18 mg/L (Rat)4 h

## 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	_	
	1 - Human Carcinogen	Known Human Carcinogen
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**

No information available.

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#### **Mobility in Environmental Media**

No information available.

## **Ozone**

No information available

# **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, 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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# 14. TRANSPORT INFORMATION

TDG Not regulated

ICAO / IATA Not regulated

IMDG / IMO Not regulated

# 15. REGULATORY INFORMATION

# **International Inventories**

**TSCA: United States**Yes - 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 nameCAS No.Weight-%NPRI Parts 1- 42-Butoxyethanol111-76-21 - 5%Listed

#### **NPRI Part 5**

This product contains the following NPRI Part 5 Chemicals:

Chemical nameCAS No.Weight-%NPRI Part 52-Butoxyethanol111-76-21 - 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: 2\* Flammability: 0 Reactivity: 0 PPE: -

## **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 @

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

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Montvale, NJ 07645

800-225-5554

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#### **Disclaimer**

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**END OF SAFETY DATA SHEET**