



Revision Date: 20-Dec-2016 Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name WATERBORNE AMINE EPOXY BATTLESHIP GRAY

Product Code V440-75FR

Alternate Product Code A44075

Product Class WATERBORNE EPOXY

Color Gray

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 corotechcoatings.ca

Manufacturer

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

Phone: 800-225-5554 corotechcoatings.com

Emergency Telephone Number(s)

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

Danger		

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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/mist/vapors/spray

Precautionary Statements - Response

If exposed call a POISON CENTER or 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 physician

Skin

If on skin wash with plenty of soap and water

If skin irritation occurs get medical attention

Take off contaminated clothing and wash before reuse

Ingestion

If swallowed call a POISON CENTER or 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

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, a small amount of clean sand may be added. Stir often during application.

3. COMPOSITION INFORMATION ON COMPONENTS

Chemical Name	CAS-No	Weight % (max)
Aliphatic polyamine	U84660-00-1	10 - 30%
Silica, crystalline	14808-60-7	10 - 30%
Titanium dioxide	13463-67-7	5 - 10%
2-Propoxyethanol	2807-30-9	3 - 7%
2-Butoxyethanol	111-76-2	1 - 5%
Carbon black	1333-86-4	0.25 - 0.5%
Distillates, petroleum, solvent-refined heavy paraffinic	64741-88-4	0.1 - 0.25%
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	0.1 - 0.25%
Aluminum oxide	1344-28-1	0.1 - 0.25%

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 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

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent)

advice.

Protection Of First-Aiders Use 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

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Closed containers may runture if exposed to fire or

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)

Flash Point Method

Not applicable

Not applicable

Flammability Limits In Air

Lower Explosion LimitNot applicableUpper Explosion LimitNot 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 PrecautionsSee Section 12 for additional Ecological Information.

Methods For Clean-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

No exposure limits have been established for this product.

Chemical Name	ACGIH	Alberta	British Columbia	Ontario	Quebec
Silica, crystalline	0.025 mg/m ³ - TWA	0.025 mg/m ³ - TWA	0.025 mg/m ³ - TWA	0.10 mg/m ³ - TWA	0.1 mg/m ³ - TWAEV

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Titanium dioxide	10 mg/m³ - TWA	10 mg/m³ - TWA	10 mg/m³ - TWA 3 mg/m³ - TWA	10 mg/m³ - TWA	10 mg/m³ - TWAEV
2-Propoxyethanol	N/E	N/E	N/E	25 ppm - TWA 110 mg/m³ - TWA Danger of cutaneous absorption	N/E
2-Butoxyethanol	20 ppm - TWA	20 ppm - TWA 97 mg/m³ - TWA	20 ppm - TWA	20 ppm - TWA	20 ppm - TWAEV 97 mg/m³ - TWAEV
Carbon black	3 mg/m³ - TWA	3.5 mg/m ³ - TWA	3 mg/m³ - TWA	3 mg/m³ - TWA	3.5 mg/m ³ - TWAEV
Aluminum oxide	1 mg/m³ - TWA	10 mg/m³ - TWA	1.0 mg/m ³ - TWA	1 mg/m³ - TWA	10 mg/m ³ - TWAEV

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.

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Personal Protective Equipment

Eye/Face Protection
Skin Protection

Respiratory Protection

Safety glasses with side-shields.

Protective gloves and impervious clothing.

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.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid

Odor little or no odor

Odor Threshold No information available

 Density (lbs/gal)
 10.1 - 10.2

 Specific Gravity
 1.21 - 1.23

Specific Gravity 1.21 - 1.23
pH No information available

Viscosity (cps)

No information available
Solubility

No information available

Water Solubility

Evaporation Rate

No information available
No information available

Vapor PressureNo information availableVapor DensityNo information available

 Wt. % Solids
 45 - 55

 Vol. % Solids
 30 - 40

 Wt. % Volatiles
 45 - 55

Vol. % Volatiles 45 - 55
Vol. % Volatiles 60 - 70
VOC Regulatory Limit (g/L) <250

Boiling Point (°F) 212
Boiling Point (°C) 100
Freezing Point (°F) 32
Freezing Point (°C) 0

Flash Point (°F)

Flash Point (°C)

Flash Point Method

Flammability (solid, gas)

Upper Explosion Limit

Lower Explosion Limit

Not applicable

Not applicable

Not applicable

Not applicable

Autoignition Temperature (°F)

No information available

Autoignition Temperature (°C)No information availableDecomposition Temperature (°F)No information availableDecomposition Temperature (°C)No information availablePartition Coefficient (n-octanol/water)No 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 ProductsNone 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

Sensitization:

Neurological Effects Mutagenic Effects

Product Information No information available

Information on toxicological effects

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eye contact Contact with eyes may cause irritation Vapor may cause

irritation Causes eye irritation Risk of serious damage to

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eyes May cause burns

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

No information available. No information available. No information available.

Reproductive Effects Possible risk of impaired fertility. Possible risk of harm to

the unborn child.

Developmental EffectsNo information available.Target Organ EffectsNo information available.

STOT - single exposure May cause disorder and damage to the. Respiratory

system. Digestive System. Blood.

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

exposure if inhaled. Contains: Crystalline Silica which 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. Causes damage to organs through prolonged or repeated exposure if swallowed. Causes damage to organs through prolonged or repeated exposure in contact with skin. May cause disorder and damage to the. Blood. Kidney.

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No information available.

No information available.

Other adverse effects Aspiration Hazard

Numerical measures of toxicity

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

ATEmix (oral) 1219 mg/kg
ATEmix (dermal) 12893 mg/kg
ATEmix (inhalation-dust/mist) 6.6 mg/L
ATEmix (inhalation-vapor) 384 mg/L

Component

Silica, crystalline

LD50 Oral: 500 mg/kg (Rat)

Titanium dioxide

LD50 Oral: > 10000 mg/kg (Rat)

2-Propoxyethanol

LD50 Oral: 3089-3090 mg/kg (Rat) LD50 Dermal: 960 µL/kg (Rabbit)

LC50 Inhalation (Vapor): 9060 mg/m³ (Rat)

2-Butoxyethanol

LD50 Oral: 470 mg/kg (Rat) LD50 Dermal: 220 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 450 ppm (Rat, 4 hr.)

Carbon black

LD50 Oral: > 15400 mg/kg (Rat) LD50 Dermal: > 3000 mg/kg (Rabbit)

Distillates, petroleum, solvent-refined heavy paraffinic

LD50 Oral: > mg/kg (Rat) LD50 Dermal: > mg/kg

LC50 Inhalation (Vapor): > mg/L (Rat, 4 hr.)

Distillates (petroleum), solvent-refined light paraffinic

LD50 Oral: > 15 g/kg (Rat) LD50 Dermal: > 5 g/kg (Rabbit)

Chronic Toxicity

Carcinogenicity

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

Chemical Name	IARC	NTP	
	1 - Human Carcinogen	Known Human Carcinogen	
Silica, crystalline		-	
	2B - Possible Human Carcinogen		
Titanium dioxide	_		
	2B - Possible Human Carcinogen		

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Carbon black	
	Reasonably Anticipated Human
Aluminum oxide	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.
- 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 / Accumulation

No information available.

Mobility in Environmental Media

No information available.

Ozone

No information available

Component

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

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.

National Pollutant Release Inventory (NPRI)

NPRI Parts 1-4

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

Chemical Name	CAS-No	Weight % (max)	NPRI Parts 1- 4
2-Propoxyethanol	2807-30-9	3 - 7%	Listed
2-Butoxyethanol	111-76-2	1 - 5%	Listed
Aluminum oxide	1344-28-1	0.1 - 0.25%	Listed

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

Chemical Name	CAS-No	Weight % (max)	NPRI Part 5
2-Butoxvethanol	111-76-2	1 - 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

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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.

Product Stewardship Department Prepared By

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Disclaimer

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END OF SAFETY DATA SHEET