# SAFETY DATA SHEET

**Revision Date:** *17-Oct-2023* **Revision Number:** *7*

## 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**
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www.benjaminmoore.ca/corotech

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+1 703-527-3887 (outside US & Canada)
CANUTEC: 613-996-6666 (Transport Emergency Only)

## 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 |
| Specific target organ toxicity (single exposure) | Category 1 |
| Specific target organ toxicity (repeated exposure) | Category 1 |

**Label elements**

**Danger**

**Hazard statements**
Harmful if swallowed
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

**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
**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

**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.

**WARNING:** This product contains isothiazolinone compounds at levels of <0.1%. These substances are biocides commonly found in most paints and a variety of personal care products as a preservative. Certain individuals may be sensitive or allergic to these substances, even at low levels.

## 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) |
|---|---|---|---|---|
| Aliphatic polyamine | - | 10 - 30% | HMIRC # 9649 | Granted: April 21, 2016 |
| 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 | 0.1 - 0.25% | - | - |

*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 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.

**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)** | Not Applicable |
| **Flash Point (°C)** | Not applicable |
| **Method** | Not applicable |

**Flammability Limits In Air**

| | |
|---|---|
| **Lower flammability limit:** | Not applicable |
| **Upper flammability limit:** | Not applicable |

**NFPA**

| | |
|---|---|
| **Health hazards** | 1 |
| **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 Materials**

No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits**

| Chemical name | ACGIH TLV | Alberta | British Columbia | Ontario | Quebec |
|---|---|---|---|---|---|
| Silica, crystalline | TWA: 0.025 mg/m³ respirable particulate matter | TWA: 0.025 mg/m³ | TWA: 0.025 mg/m³ | TWA: 0.10 mg/m³ | TWA: 0.1 mg/m³ |
| Titanium dioxide | TWA: 0.2 mg/m³ nanoscale respirable particulate matter<br>TWA: 2.5 mg/m³ finescale respirable particulate matter | 10 mg/m³ - TWA | 10 mg/m³ - TWA<br>3 mg/m³ - TWA | 10 mg/m³ - TWA | 10 mg/m³ - TWAEV |
| 2-Propoxyethanol | - | - | - | 25 ppm - TWA<br>110 mg/m³ - TWA<br>Danger of cutaneous absorption | - |
| 2-Butoxyethanol | TWA: 20 ppm | TWA: 20 ppm<br>TWA: 97 mg/m³ | TWA: 20 ppm | TWA: 20 ppm | TWA: 20 ppm |
| Carbon black | TWA: 3 mg/m³ inhalable particulate matter | 3.5 mg/m³ - TWA | 3 mg/m³ - TWA | 3 mg/m³ - TWA | 3.5 mg/m³ - 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.

**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)** | 9.9 - 10.3 |
| **Specific Gravity** | 1.19 - 1.23 |
| **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** | 45 - 55 |
| **Vol. % Solids** | 30 - 40 |
| **Wt. % 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)** | Not Applicable |
| **Flash Point (°C)** | Not applicable |
| **Method** | Not applicable |
| **Flammability (solid, gas)** | Not applicable |
| **Upper flammability limit:** | Not applicable |
| **Lower flammability limit:** | Not applicable |
| **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** | 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**
**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, vomiting and diarrhea. Can burn mouth, throat, and stomach. |
| **Sensitization** | No information available. |
| **Neurological Effects** | No information available. |
| **Mutagenic Effects** | No information available. |
| **Reproductive Effects** | No information available. |
| **Developmental Effects** | No 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. |
| **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** | No information available. |
| **Aspiration Hazard** | No information available. |

**Numerical measures of toxicity**

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

| | |
|---|---|
| **ATEmix (oral)** | 1855 mg/kg |
| **ATEmix (dermal)** | 12893 mg/kg |
| **ATEmix (inhalation-dust/mist)** | 6.6 mg/l |
| **ATEmix (inhalation-vapor)** | 294.9 mg/l |

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

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Titanium dioxide<br>13463-67-7 | > 10000 mg/kg ( Rat ) | - | - |
| 2-Propoxyethanol<br>2807-30-9 | = 3089 mg/kg ( Rat ) | = 870 mg/kg ( Rabbit ) = 960 µL/kg ( Rabbit ) | = 1530 ppm ( Rat ) 7 h |
| 2-Butoxyethanol<br>111-76-2 | = 1300 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 4.9 mg/L (Rat) 3H |
| Carbon black<br>1333-86-4 | > 15400 mg/kg ( Rat ) | > 3 g/kg ( Rabbit ) | - |

**Chronic Toxicity**

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

| Chemical name | IARC | NTP |
|---|---|---|
| Silica, crystalline | 1 - Human Carcinogen | Known |
| Titanium dioxide | 2B - Possible Human Carcinogen | |
| Carbon black | 2B - Possible Human 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**
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, provincial, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

## 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.
**DSL: Canada** 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-% | NPRI Parts 1- 4 |
|---|---|---|---|
| 2-Butoxyethanol | 111-76-2 | 1 - 5% | Listed |

**NPRI Part 5**
This product contains the following NPRI Part 5 Chemicals:

| Chemical name | CAS No | Weight-% | NPRI Part 5 |
|---|---|---|---|
| 2-Butoxyethanol | 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

**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 logging onto Health Canada at http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php.

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**Revision Date:** 17-Oct-2023
**Reason for revision** Not available

**Disclaimer**

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**End of Safety Data Sheet**