



# SAFETY DATA SHEET

Revision Date: 13-May-2016

Revision Number: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** WATERBORNE SEMI-GLOSS SWIMMING POOL PAINT  
**AQUAMARINE**  
**Product Code** WR-1019F  
**Alternate Product Code** XF0819  
**Product Class** WATER THINNED PAINT  
**Color** Blue green  
**Recommended use** 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  
insl-x.ca

**Manufacturer**

Benjamin Moore & Co.  
101 Paragon Drive  
Montvale, NJ 07645  
Phone: 800-225-5554  
insl-x.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)

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

**Label elements**

**Danger**

**Hazard statements**

May cause cancer  
May damage fertility or the unborn child  
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  
Do not breathe dust/fume/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product

**Precautionary Statements - Response**

If exposed or concerned get medical attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other information**

No information available

### 3. COMPOSITION INFORMATION ON COMPONENTS

Chemical Name	CAS-No	Weight % (max)
Titanium dioxide	13463-67-7	5 - 10%
2-Butoxyethanol	111-76-2	3 - 7%
Silica, crystalline	14808-60-7	3 - 7%
Silica, mica	12001-26-2	1 - 5%
Propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol	25265-77-4	1 - 5%
2,2,4-trimethyl-1,3-propanediol diisobutyrate	6846-50-0	1 - 5%
1-Methyl-2-pyrrolidinone	872-50-4	1 - 5%

### 4. FIRST AID MEASURES

**General Advice**

No hazards which require special first aid measures.

**Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin Contact**

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

**Inhalation**

Move to fresh air. If symptoms persist, call a physician.

<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.
<b>Most Important Symptoms/Effects</b>	None known.
<b>Notes To Physician</b>	Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Protective Equipment And Precautions For Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific Hazards Arising From The Chemical</b>	Closed containers may rupture if exposed to fire or extreme heat.
<b>Sensitivity To Mechanical Impact</b>	No
<b>Sensitivity To Static Discharge</b>	No
<b>Flash Point Data</b>	
Flash Point (°F)	Not applicable
Flash Point (°C)	Not applicable
Flash Point Method	Not applicable
<b>Flammability Limits In Air</b>	
Lower Explosion Limit	Not applicable
Upper Explosion Limit	Not applicable

**NFPA**    **Health:** 1        **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](http://www.nfpa.org).*

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
<b>Other Information</b>	Prevent further leakage or spillage if safe to do so.
<b>Environmental Precautions</b>	See Section 12 for additional Ecological Information.
<b>Methods For Clean-Up</b>	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Storage</b>	Keep container tightly closed. Keep out of the reach of children.
<b>Incompatible Materials</b>	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
Titanium dioxide	10 mg/m <sup>3</sup> - TWA	10 mg/m <sup>3</sup> - TWA	10 mg/m <sup>3</sup> - TWA 3 mg/m <sup>3</sup> - TWA	10 mg/m <sup>3</sup> - TWA	10 mg/m <sup>3</sup> - TWAEV
2-Butoxyethanol	20 ppm - TWA	20 ppm - TWA 97 mg/m <sup>3</sup> - TWA	20 ppm - TWA	20 ppm - TWA	20 ppm - TWAEV 97 mg/m <sup>3</sup> - TWAEV
Silica, crystalline	0.025 mg/m <sup>3</sup> - TWA	0.1 mg/m <sup>3</sup> - TWA	0.025 mg/m <sup>3</sup> - TWA	0.10 mg/m <sup>3</sup> - TWAEV designated substance regulation	0.1 mg/m <sup>3</sup> - TWAEV
Silica, mica	3 mg/m <sup>3</sup> - TWA	3 mg/m <sup>3</sup> - TWA	3 mg/m <sup>3</sup> - TWA	3 mg/m <sup>3</sup> - TWAEV containing no asbestos and less than 1% crystalline silica	3 mg/m <sup>3</sup> - TWAEV
1-Methyl-2-pyrrolidinone	N/E	N/E	N/E	400 mg/m <sup>3</sup> - TWAEV	N/E

#### 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

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin Protection</b>	Protective gloves and impervious clothing.
<b>Respiratory Protection</b>	In case of insufficient ventilation wear suitable respiratory equipment.
<b>Hygiene Measures</b>	Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	liquid
<b>Odor</b>	little or no odor
<b>Odor Threshold</b>	No information available
<b>Density (lbs/gal)</b>	9.6 - 9.7
<b>Specific Gravity</b>	1.15 - 1.17
<b>pH</b>	No information available
<b>Viscosity (cps)</b>	No information available
<b>Solubility</b>	No information available

Water Solubility	No information available
Evaporation Rate	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Wt. % Solids	40 - 50
Vol. % Solids	30 - 40
Wt. % Volatiles	50 - 60
Vol. % Volatiles	60 - 70
VOC Regulatory Limit (g/L)	< 340
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
Flash Point Method	Not applicable
Flammability (solid, gas)	Not applicable
Upper Explosion Limit	Not applicable
Lower Explosion 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 (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 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

#### 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

<b>Skin contact</b>	irritation Substance may cause slight skin irritation. Prolonged or repeated contact may dry skin and cause irritation.
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Sensitization:</b>	No information available.
<b>Neurological Effects</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Reproductive Effects</b>	May damage fertility or the unborn child.
<b>Developmental Effects</b>	No information available.
<b>Target Organ Effects</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	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.
<b>Other adverse effects</b>	No information available.
<b>Aspiration Hazard</b>	No information available.

#### Numerical measures of toxicity

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

<b>ATEmix (oral)</b>	3973 mg/kg
<b>ATEmix (dermal)</b>	18374 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	24.2 mg/L
<b>ATEmix (inhalation-vapor)</b>	38.2 mg/L

#### Component

##### Titanium dioxide

LD50 Oral: > 10000 mg/kg (Rat)

##### 2-Butoxyethanol

LD50 Oral: 470 mg/kg (Rat)

LD50 Dermal: 220 mg/kg (Rabbit)

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

##### Silica, crystalline

LD50 Oral: 500 mg/kg (Rat)

##### Silica, mica

LD50 Oral: > 16000 mg/kg (Rat)

##### 2,2,4-trimethyl-1,3-propanediol diisobutyrate

LD50 Oral: > 3,200 mg/kg (Rat) vendor data

LC50 Inhalation (Vapor): > 5.3 mg/L (Rat)

##### 1-Methyl-2-pyrrolidinone

LD50 Oral: 3598 mg/kg (Rat)

LD50 Dermal: 2000 mg/kg (Rabbit)

#### Chronic Toxicity

#### Carcinogenicity

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

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

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.

**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:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>	<u>NPRI Parts 1- 4</u>
2-Butoxyethanol	111-76-2	3 - 7%	Listed
Propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol	25265-77-4	1 - 5%	Listed
1-Methyl-2-pyrrolidinone	872-50-4	1 - 5%	Listed

**NPRI Part 5**

This product contains the following NPRI Part 5 Chemicals:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>	<u>NPRI Part 5</u>
2-Butoxyethanol	111-76-2	3 - 7%	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: 1\* 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](http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php).

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### Disclaimer

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**END OF SAFETY DATA SHEET**