

# SAFETY DATA SHEET (SDS)

SDS Date: 05/29/2015

Reviewed: Initial

Printed: 9/3/2015

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## SECTION 1: Identification of the substance/mixture and of the company

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PRODUCT NAME: AQUAGARD BOTTOM PAINT BLACK

PRODUCT CODES 10001/10101/10201

USES: Bottom paint for pleasure crafts.  
Do not use for any application other than its intended use.

This Safety Data Sheet has been updated in accordance with the Global Harmonized System (GHS).

MANUFACTURER: Flexabar Corporation

ADDRESS:  
1969 Rutgers Blvd. Lakewood, New Jersey USA 08701  
Tel (732) 901-6500

**FLEXDEL**  
c o r p o r a t i o n

EMERGENCY PHONE: 1-800-424-9300  
CHEMTREC 24 Hour Emergency Response: 1-800-424-9300  
Information: SDS Coordinator: 1-732-901-6500  
FAX PHONE: 1-732-901-6504

PREPARED BY: Flexabar Information Services

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## SECTION 2: HAZARD(S) IDENTIFICATION

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### EMERGENCY OVERVIEW:

Causes irritation to the skin, eyes, mucous membranes and respiratory tract.  
Can be absorbed through the skin causing systemic effects.

### GHS Classification:

H302 Harmful if swallowed  
H313 May be Harmful in contact with skin  
H373 May cause damage to organs through prolonged or repeated exposure  
H410 Very toxic to aquatic life with long lasting effects

### GHS Label elements:

#### Pictograms:



#### Signal Word:

**Danger**

#### Hazard Statements:

##### Description

H301 Toxic if Swallowed  
H302 Harmful if swallowed  
H313 May be harmful in contact with Skin  
H373 May cause damage to organs through prolonged or repeated exposure  
H410 Very toxic to aquatic life with long lasting effects

#### Precautionary Statements: Description

P262 Do not get in eyes, on skin or on clothing  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment  
P280 Wear protective gloves/eye protection/face protection  
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302+352 IF ON SKIN: Wash with soap and water  
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes.  
Remove contact lenses if present and easy to do-continue rinsing  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth  
P331 DO NOT induce vomiting

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P333+313 If skin irritation or a rash occurs: Get medical advice/attention  
 P337 If eye irritation persists  
 P362 Take off contaminated clothing and wash before reuse  
 P391 Control spillage  
 P403+233 Store in a well ventilated place. Keep container tightly closed  
 P501 Dispose of contents/container in accordance with local/national regulations

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient/Chemical Designations  | Weight %    | GHS Classification  | Notes  |
|-----------------------------------|-------------|---|--|
| Acrylic Copolymer<br>Proprietary  | 11.0 – 19.0 | Not Classified as Hazardous   |  |
| Ethylene Glycol<br>CAS# 107-21-1  | 1.0 – 3.0   | Acute toxicity, Oral<br>Skin irritation<br>Specific target organ systemic toxicity – single exposure, Oral, Central nervous system, Kidney<br>Specific target organ systemic toxicity – repeated exposure, Oral, Central nervous system, Kidney   | Category 4<br>Category 2<br>Category 1<br><br>Category 2<br><br>1, 2   |
| Dibutyl Phthalate<br>CAS# 84-74-2 | 1.0 – 3.0   | Reproductive toxicity<br>Acute aquatic toxicity   | (Category 1B), H360<br>(Category 1), H440<br><br>1, 2  |
| Zinc Oxide<br>CAS# 1314-13-2      | 1.0 – 3.0   | Aquatic Acute<br>Aquatic Chronic  | Very toxic to aquatic life, H400<br>Very toxic to aquatic life with long lasting effects, H410   |
| Cuprous Oxide<br>CAS# 1317-39-1   | 26.0 – 29.0 | Acute toxicity<br>Aquatic Acute<br>Aquatic Chronic  | (4) Harmful if swallowed, H302<br>Very toxic to aquatic life, H400<br>Very toxic to aquatic life with long lasting effects, H410<br><br>1, 2 |
| Carbon Black<br>CAS No. 1333-86-4 | 1.5 -3.0    | Acute Toxicity – No evidence of adverse effects from available data<br>Acute Eye – High dust concentrations may cause mechanical irritation to eye.<br>Acute Skin – May cause mechanical irritation, soiling and skin drying,<br>Sensitization – No cases of sensitization have been reported in humans<br>Carcinogenicity – IARC listed; Group 2B (possibly carcinogenic to humans). Not listed as carcinogen by NTP, ACGIH, OSHA or the European Union. There are no known human carcinogenic effects related to the PAH content of carbon blacks. Recent research has shown that the PAH content of carbon blacks is not released in biological fluids and thus not available for biological activity. |  |

GHS Classification Scale (1 = severe; 4 = slight)

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit

[3] PBT substance or vPvb substance

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## SECTION 4: FIRST AID MEASURES

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### Description of first aid measures

|                   |   |
|-------------------|---|
| <b>General</b>    | Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean contaminated shoes.   |
| <b>Inhalation</b> | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.                              |
| <b>Eyes</b>       | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.   |
| <b>Skin</b>       | In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately.  |
| <b>Ingestion</b>  | If swallowed, immediately contact Poison Control Center. DO NOT induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person. |

### Important symptoms and effects, acute and delayed

|                        |  |
|------------------------|--|
| <b>Overview</b>        | Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Avoid contact with eyes, skin and clothing. |
| <b>Inhalation</b>      | Harmful if inhaled. Causes nose and throat irritation. Vapors may affect the brain or nervous system causing Dizziness, headache or nausea.  |
| <b>Eyes</b>            | Causes severe eye irritation. Avoid contact with eyes.   |
| <b>Skin</b>            | Causes skin irritation. May be harmful if absorbed through skin.   |
| <b>Ingestion</b>       | Harmful if swallowed. May cause abdominal pain, nausea, vomiting, diarrhea or drowsiness.  |
| <b>Chronic effects</b> | Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data. Risk of cancer dependant on duration and level of exposure.  |

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## SECTION 5: FIRE-FIGHTING MEASURES

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|                                      |  |
|--------------------------------------|--|
| <b>Conditions of flammability</b>    | Material may burn but does not ignite readily. Fire may produce irritating and or toxic gasses. Heated containers may explode.   |
| <b>Extinguishing media</b>           | Use dry chemical powder, CO2 or foam, water spray may be used for large fires.   |
| <b>Special protective equip.</b>     | Wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full protective gear.   |
| <b>Hazardous combustion products</b> | Carbon oxides  |
| <b>Special information</b>           | Use water spray to disperse vapors and to protect personnel attempting to stop leak.<br>Can react vigorously with oxidizing materials.<br>Do not allow fire water contaminated with this product to enter any waterway or storm drain. |

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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|                                       |  |
|---------------------------------------|--|
| <b>Personal precautions</b>           | Wear adequate/appropriate personal protection equipment. Ventilate area if confined space.   |
| <b>Environmental precautions</b>      | Prevent further leakage or spillage if safe to do so. Do not let product enter drains or soil. Discharge into the environment must be avoided. |
| <b>Methods of containment/cleanup</b> | Contain liquid with dirt, sand, vermiculite or other noncombustible solids. Transfer to a metal container for disposal.                        |

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## SECTION 7: HANDLING AND STORAGE

|                                   |  |
|-----------------------------------|--|
| <b>Handling</b>                   | Wear adequate personal protective equipment. Keep containers tightly closed. Avoid contact with skin or eyes.                    |
| <b>Storage</b>                    | Store in a cool, dry, well-ventilated area, protect from freezing.   |
| <b>Incompatibilities</b>          | Oxidizing agents, including nitric acid and peroxides.   |
| <b>Suitable Packing Materials</b> | Polyethylene, poly propylene or Stainless steel (tanks/containers)<br>Do <b>NOT</b> store in lead, steel or aluminum containers. |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| CAS No.        | Ingredient                 | Source   | Value   |
|----------------|----------------------------|----------|---|
| Proprietary    | Acrylic Copolymer Emulsion | Supplier | No Controls   |
| CAS# 107-21-1  | Ethylene Glycol            | ACGIH    | 100mg/m3 (CEILING) aerosol only   |
| CAS# 84-74-2   | Dibutyl Phthalate          | OSHA     | TWA 5mg/m3 (Table Z-1 Limits for Air Contaminants)  |
|                |                            | ACGIH    | 5 mg/m3 Upper respiratory, Eye irritation, Testicular damage  |
|                |                            | NIOSH    | TWA 5 mg/m3   |
| CAS# 1317-39-1 | Cuprous Oxide              | OSHA     | PEL 1mg.m3 (8hr. TWA) As mists and dusts  |
|                |                            | ACGIH    | PEL 1mg.m3 (8hr. TWA) As mists and dusts  |
| 1333-86-4      | Carbon Black               | OSHA     | 3.5mg/m3 TWA  |
|                |                            | ACGIH    | 3 mg/m3 TWA (inhalable fraction)  |
| 1314-13-2      | Zinc Oxide                 | OSHA     | PEL 5mg/m3 (fume) 15mg/m3 (total dust) and 5mg/m3 (respirable dust). 8hr. TWA   |
|                |                            | ACGIH    | 2mg/m3 (8hr. TWA) and 10mg/m3 (STEL) for the respirable fraction  |
|                |                            | NIOSH    | 5mg/m3 (fume and dust) averaged over a 10 hr. work shift, 10mg/m3 as a short term exposure limit (for fume) and 15mg/m3 (for dust), not to be exceeded at any time. |

PEL = Permissible Exposure Limits

TLV = Threshold Limit Value

EL = Excursion Limit

TWA = Time Weighted Average (8 hr.)

STEL = Short Term Exposure Limit (15 min.)

WEEL = Workplace Environmental Exposure Level

### Exposure Controls:

#### Respiratory

Select equipment to provide protection from the ingredients listed in section 3 of this document. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates dust, vapor or mist levels above the applicable limits, wear appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.

#### Eyes

Avoid contact with eyes. Protective equipment should be selected to provide protection from the ingredients Listed in section 3 of this document. Depending on site and application method specific conditions, safety glasses, chemical goggles, and or head and face protection may be required. All equipment must be thoroughly cleaned or discarded after use.

#### Skin

Select equipment to provide protection from the ingredients listed in section 3 of this document. Depending on the site-specific conditions of use, protective gloves, apron, boots, head and face protection

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May be required to prevent contact. All equipment must be thoroughly cleaned or discarded after each use.

**Engineering Controls** Ensure adequate ventilation to keep exposure levels at a minimum under the specific conditions.

**Other Work Practices** Emergency eye wash stations and safety showers should be available in the immediate work area. Use good Personal hygiene practices. Wash hands before eating, drinking, using toilet facilities, etc. Promptly remove exposed/spoiled clothing and wash separately before reuse. Shower after work using plenty of soap and water.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: Black Viscous

ODOR: Mild latex

PHYSICAL STATE: liquid

PH AS SUPPLIED: Not Measured

BOILING POINT:

F: Not Measured

C: Not Measured

MELTING POINT:

F: Not Measured

C: Not measured

FREEZING POINT:

F: Not measured

C: Not Measured

VAPOR PRESSURE (mmHg): Not Measured

@

F:

C:

VAPOR DENSITY (AIR = 1): Heavier than air

@

F:

C:

SPECIFIC GRAVITY (H2O = 1):

@ 1.4139

F: 77

C:

EVAPORATION RATE: NE MIXTURE

BASIS (=1):

SOLUBILITY IN WATER: Negligible

MIXTURE

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## SECTION 10: STABILITY AND REACTIVITY

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Reactivity No data available

10.2. Chemical stability This product is stable and hazardous polymerization will not occur. Not sensitive to mechanical impact. Excessive heat and fume generation can occur if improperly handled.

10.3. Possibility of hazardous reactions No data available

10.4. Conditions to avoid No data available

10.5. Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition products May produce hazardous fumes when heated to decomposition as in welding. Fumes may produce Hydrogen chloride, Chlorinated compounds, Carbon Dioxide and Carbon Monoxide.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION:

Breathing large amounts of hydrocarbon/ketone solvents for short periods of time adversely effects the human nervous system, the kidneys, liver, and the heart. Repeatedly breathing large amounts of toluene as when "sniffing glue" or paint can cause permanent brain damage. Human exposure studies and animal studies suggest that exposure to large amounts of solvents during pregnancy can adversely affect the developing fetus.

| Ingredient                 | Oral LD50 mg/kg   | Dermal LD50 mg/kg            | Inhalation Vapor LC 50 | Eye Damage/irritation        |
|----------------------------|-------------------|------------------------------|------------------------|------------------------------|
| Acrylic Copolymer Emulsion | No Data Available | No Data Available            | No Data Available      | No Data Available            |
| Ethylene Glycol            | 7712 (rat)        | 3500 (mouse)                 | 2.5 mg/l (rat) (6 hr.) | Not Classified               |
| Dibutyl Phthalate          | 8000 (rat)        | 20860 (rabbit)               | 4250 mg/m3 (rat)       | No Data                      |
| Cuprous Oxide              | No Data           | Not Classified               | Nat Classified         | Not Classified               |
| Carbon Black               | 8000 (rat)        | 3000 (rabbit)                | No Data Available      | No Data Available            |
| Zinc Oxide                 | >5000 Rat         | No sensitizing effects known | 5.7 mg/l (rat) (4hr)   | No sensitizing effects known |

All ingredient values, literature values

| <u>Item</u>   | <u>Category</u> | <u>Hazard</u>                |
|---|-----------------|------------------------------|
| Acute Toxicity (mouth)                                      | Not Classified  | Not Applicable               |
| Acute Toxicity (skin)                                       | Not Classified  | Not Applicable               |
| Acute Toxicity (inhalation)                                 | Not Classified  | Not Applicable               |
| Skin corrosion/irritation                                   | 3               | Causes mild skin irritation. |
| Eye damage/irritation                                       | Not Classified  | Not Applicable               |
| Sensitization (respiratory)                                 | Not Classified  | Not Applicable               |
| Sensitization (skin)  | Not Classified  | Not Applicable               |
| Germ toxicity   | Not Classified  | Not Applicable               |
| Carcinogenicity   | Not Classified  | Not Applicable               |
| Reproductive Toxicity                                       | Not Classified  | Not Applicable               |
| Specific target organ systemic toxicity (single exposure)   | Not Classified  | Not Applicable               |
| Specific target organ systemic Toxicity (repeated exposure) | Not Classified  | Not Applicable               |
| Aspiration hazard   | Not Classified  | Not Applicable               |

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## SECTION 12: ECOLOGICAL INFORMATION

| Ingredient                 | Toxicity to fish LC50                  | Toxicity to invertebrates LC50              | Toxicity to algae EC50      | Biodegradation  | Bioaccumulation   | Mobility in soil                  |
|----------------------------|--|---|-----------------------------|---|---|-----------------------------------|
| Acrylic Copolymer Emulsion | No Data Available                      | No Data Available                           | No Data Available           | No Data Available   | No Data Available   | No Data Available                 |
| Ethylene Glycol            | Low acute toxicity to fish             | Low acute toxicity to aquatic invertebrates | Low acute toxicity to algae | Rapidly degradable  | Not expected to bioaccumulate.  | Low potential for soil adsorption |
| Dibutyl Phthalate          | Fathead minnow<br>0.85 mg/l (96.0 hr.) | Daphnia Magna<br>3.7 mg/l (96.0 hr)         | No Data                     | 81% Readily biodegradable.<br>(C.4C of the council regulation (EC) No 440/2008) | Fat head minnow<br>11 day 0.0348 mg/l<br>Bioconcentration factor (BCF):<br>2,165 Does not bioaccumulate | No Data Available                 |
| Cuprous Oxide              | No Data Available                      | No Data Available                           | No Data Available           | No Data Available   | No Data Available   | No Data Available                 |
| Zinc Oxide                 | No Data Available                      | No Data Available                           | IC50 (72h)0.21 mg/l         | No Data Available   | Not expected to bioaccumulate   | No Data Available                 |

All ingredient Values, literature values

Persistence and degradability No data available  
Bio accumulative potential Not Measured  
Mobility in soil No data available  
Results of PBT and vPvB assessment This product contains no PBT/vPvB chemicals.  
Other adverse effects No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Waste must be disposed of in accordance with federal, state and local environmental control regulations. This product contains components that are RCRA hazardous waste. Do not flush material to drain or storm sewer. Contract to authorized disposal service. Empty containers must be handled with care due to product residue.

## SECTION 14: TRANSPORT INFORMATION

**UN-number:** 3082

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S.  
(Cuprous Oxide)

The product is classified: Environmentally Hazardous Substance

### Sea (IMDG):

Class: 9  
PG: III  
MP: Yes  
EmS: F-A, S-F

MFAG: 1

**Inland Waterways:** To be handled locally.

### Air (ICAO/IATA):

Class: 9  
PG: III

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Land (DOT):

Class: 9  
PG: III  
Primary risk label: 9

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## SECTION 15: REGULATORY INFORMATION

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EPA Registration No. 9339-19

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

WHMIS Classification Not Regulated

DOT Marine Pollutants (10%):  
(No Product Ingredients Listed)

DOT Severe Marine Pollutants (1%):  
Copper

EPCRA 311/312 Chemicals and RQs (>.1%):  
Copper 5000 lb. final RQ  
Ethylene Glycol  
Dibutyl Phthalate

EPCRA 302 Extremely Hazardous (>.1%):  
(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals (>.1%):  
Copper  
Ethylene Glycol  
Dibutyl Phthalate

Mass RTK Substances (>1%):  
Titanium dioxide  
Zinc oxide  
Ethylene Glycol  
Dibutyl Phthalate  
Carbon Black

Penn RTK Substances (>1%):  
1,2-Propylene glycol  
Zinc oxide  
Ethylene Glycol  
Dibutyl Phthalate  
Carbon Black

Penn Special Hazardous Substances (>.01%):  
(No Product Ingredients Listed)

RCRA Status:  
(No Product Ingredients Listed)

N.J. RTK Substances (>1%):  
1,2-Propylene glycol  
Zinc oxide  
Ethylene Glycol  
Dibutyl Phthalate  
Carbon Black

N.J. Special Hazardous Substances (>.01%):  
(No Product Ingredients Listed)

N.J. Env. Hazardous Substances (>.1%):  
Copper

Proposition 65 - Carcinogens (>0%):  
None none



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Proposition 65 – Female Repro Toxins (>0%):  
Dibutyl Phthalate

Proposition 65 – Male Repro Toxins (>0%):  
Lead  
Dibutyl Phthalate

Proposition 65 – Developmental Toxins (>0%):  
Dibutyl Phthalate

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## SECTION 16: OTHER INFORMATION

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HMIS:

|                 |   |
|-----------------|---|
| Health          | 1 |
| Fire            | 1 |
| Physical Hazard | 0 |

### ABBREVIATIONS:

ACGIH = American Conference of Governmental Industrial Hygienists  
OSHA = Occupational Safety and Health Administration  
TLV = Threshold Limit Value  
TWA = Time Weighted Average  
PEL = Permissible Exposure Limit  
STEL = Short Term Exposure Limit  
NA = Not Applicable  
NE = Not Established

PREPARATION INFORMATION: HMIS Hazard Ratings Scale 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Extreme

VOC: 133 gr. per liter  
1.1078 lbs. per gal.

Check with supervisor for appropriate personal protection in accordance with rating.

### DISCLAIMER:

The information contained herein is based on data provided by our suppliers and relates only to the specific material identified. Flexabar Corporation believes that the information is accurate and reliable as of the preparation date of this material safety data sheet and reflects our best judgement, but no representation, guarantee or warranty expressed or implied is made as to the accuracy, reliability or completeness of the information. Flexabar Corporation urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

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