**BLANKET PURCHASE ORDER**  
**STATE OF MARYLAND**

**BPO NO:** 001B9400312  
**PRINT DATE:** 01/07/19  
**PAGE:** 01

<table>
<thead>
<tr>
<th>SHIP TO:</th>
<th>REFER QUESTIONS TO:</th>
</tr>
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<tbody>
<tr>
<td>AS SPECIFIED ON INDIVIDUAL ORDERS</td>
<td>IRIS Lester Bell</td>
</tr>
<tr>
<td></td>
<td>(410) 767-4612</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:IRIS.LESTER@MARYLAND.GOV">IRIS.LESTER@MARYLAND.GOV</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VENDOR ID:</th>
<th>REFER QUESTIONS TO:</th>
</tr>
</thead>
</table>
| OZARK MATERIALS LLC  
591 GLENDALE AVE  
GREENVILLE, AL 36037  
(334) 371-2309 | IRIS Lester Bell |
| | (410) 767-4612 |
| | IRIS.LESTER@MARYLAND.GOV |

<table>
<thead>
<tr>
<th>ITB:</th>
<th>EXPR DATE:</th>
<th>POST DATE:</th>
<th>DISCOUNT TERMS:</th>
<th>CONTRACT AMOUNT:</th>
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<tbody>
<tr>
<td>001IT820914</td>
<td>01/03/21</td>
<td>01/07/19</td>
<td>NET 30 DAY</td>
<td>.00</td>
</tr>
</tbody>
</table>

**TERMS:**

ARTICLES HEREIN ARE EXEMPT FROM MARYLAND SALES AND USE TAXES BY EXEMPTION CERTIFICATE NUMBER 3000256-3 AND FROM FEDERAL EXCISE TAXES BY EXEMPTION NUMBER 52-73-0358K. IT IS THE VENDOR’S RESPONSIBILITY TO ADVISE COMMON CARRIERS THAT AGENCIES OF THE STATE OF MARYLAND ARE EXEMPT FROM TRANSPORTATION TAX.

**STATEWIDE CONTRACT FOR**  
**TRAFFIC PAINT**

**CONTRACT TERM:** JANUARY 3, 2019 THROUGH FEBRUARY 3, 2021 (2 YEARS)

THIS CONTRACT CAN BE RENEWED UNILATERALLY FOR THREE, ONE (1) YEAR RENEWAL OPTIONS WITH THE SAME PRICE TERMS AND CONDITIONS.

**VENDOR CONTACT:** MR. MICHAEL DEAN  
(334) 371-2300  
BIDS@OZARKMATERIALS.NET

<table>
<thead>
<tr>
<th>LINE #</th>
<th>STATE ITEM ID</th>
<th>U/M</th>
<th>UNIT COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>63066-000000</td>
<td>GL</td>
<td>8.5400</td>
</tr>
</tbody>
</table>

PAINTS, TRAFFIC

PAINT, TRAFFIC AS PER ATTACHED SPECIFICATIONS FOR YELLOW TRAFFIC PAINT
BLANKET PURCHASE ORDER
STATE OF MARYLAND

BPO NO: 001B9400312          PRINT DATE: 01/07/19          PAGE: 02

LINE #  STATE ITEM ID  U/M  UNIT COST
0002  63066-000000  GL  8.4500

PAINTS, TRAFFIC

PAINT, TRAFFIC AS PER ATTACHED SPECIFICATIONS FOR WHITE TRAFFIC
PAINT

END OF ITEM LIST

THIS PROCUREMENT WAS CONDUCTED AS A COMPETITIVE SEALED BID. THE
AWARD WILL BE TO THE LOWEST RESPONSIVE AND RESPONSIBLE BIDDER
(BASIS FOR AWARD).

VENDOR MUST INCLUDE THE 9-DIGIT ZIP CODE OF COMPANY ADDRESS ON ALL
INVOICES. FAILURE TO DO SO MAY RESULT IN DELAY OF PAYMENT.

ALL PRODUCTS USED IN PACKING TO CUSHION AND PROTECT DURING THE
SHIPMENT OF COMMODITIES ARE TO BE MADE OF RECYCLED, RECYCLABLE,
AND/OR BIODEGRADABLE MATERIALS.

ELECTRONIC PROCESSING FEE
1. CONTRACTOR SHALL PAY A PROCESSING FEE TO THE STATE IN THE AMOUNT OF
ONE PERCENT (1%) OF THE TOTAL CONTRACT SALES. THE PROCESSING FEE IS
CALCULATED BASED ON ALL SALES TRANSACTED UNDER THE CONTRACT, MINUS,
ANY RETURNS OR CREDITS. THE PROCESSING FEE SHALL NOT BE CHARGED
DIRECTLY TO THE CUSTOMER, E.G., AS A SEPARATE LINE ITEM, FEE OR SUR-
CHARGE, BUT SHALL BE INCLUDED IN THE CONTRACTS UNIT PRICES
2. THE PROCESSING FEE SHALL BE SUBMITTED TO THE DEPARTMENT OF GENERAL
SERVICES, FISCAL SERVICES DIVISION, 301 W. PRESTON STREET, ROOM 1309,
BALTIMORE, MARYLAND., 21201, WITHIN TEN (10) CALENDAR DAYS FOLLOWING
THE END OF EACH CALENDAR MONTH ALONG WITH A MONTHLY USAGE REPORT
DOCUMENTING ALL CONTRACT SALES. AN EXCEL VERSION OF THE MONTHLY USAGE
REPORT SHALL ALSO BE EMAILED TO THE PROCUREMENT OFFICER AND THE
ACCOUNTANT, AWAWU SALAKO, AT AWAWU.SALAKO@MARYLAND.GOV
3. FAILURE TO REMIT PROCESSING FEES IN A TIMELY MANNER OR REMITTANCE
OF FEES INCONSISTENT WITH THE CONTRACT'S REQUIREMENT MAY RESULT
IN THE STATE EXERCISING ALL RECOUSE AVAILABLE UNDER THE CONTRACT
INCLUDING, BUT NOT LIMITED TO, A THIRD PARTY AUDIT OF ALL CONTRACT
ACTIVITY. SHOULD AN AUDIT BE REQUIRED BY THE STATE, THE CONTRACTOR
SHALL REIMBURSE THE STATE FOR ALL COSTS ASSOCIATED WITH THE AUDIT

*** CONTINUED, NEXT PAGE ***
UP TO $10,000.00 OR ONE (1%) PERCENT OF THE CONTRACT'S ESTIMATED ANNUAL VALUE, WHICH EVER IS HIGHER.

DESIGNATED AGENCY ONLY ( ) ALL STATE OF MARYLAND AGENCIES (X) STATE AGENCIES AND POLITICAL SUBDIVISIONS ( )
THE DURABLE ADVANTAGE

Ozark Materials' waterborne traffic paint is environmentally friendly, durable and formulated for use in a wide-range of applications. For streets and highways, rural roads, parking lots, and airfields, Ozark Materials' waterborne paint can be applied from temperatures as low as 35°F to as high as 120°F. The waterborne paint is suitable for applications on both bituminous and concrete roadways, can be sprayed with either airless or conventional spray equipment, and is available in all specifications and colors.

JUST THE FACTS...

- Superior durability
-Excellent adhesion
-Environmentally friendly
-Applied with conventional or airless spray equipment
- Fast drying
-No thinning for application
-Remains flexible over time

400 Series Regular Dry
- Great for parking lots and air field marking
- Low VOC formula with excellent atomization
- Durable, abrasion resistant finish dries within 30 minutes

500 Series Fast Dry
- Proven low VOC waterborne acrylic durability
- For use under adverse conditions--night striping, high traffic and high humidity
- Minimizes traffic control when restriping, dries to no track in under 3 minutes at 15 wet mils with glass beads applied at 77°F and humidity above 75%

600 Series High Build
- Increased durability through greater film thickness (30 mil)
- Flexible paint film to withstand road expansion and contraction
- Greater retro-reflectivity with the ability to use larger gradation beads
- No track (field) in less than 3 minutes at 77°F (25°C) and low humidity

700 Series Cold Weather
- Designed to cure in temperatures as low as 35°F
- No track (field) in less than 10 minutes at temperatures 37°F (3°C) and rising
- No switching to solvent systems in cold climates, use from early spring through late fall
- 15 mils wet application
- Extends striping season

SPECIFICATIONS
- Meets Federal Std. 141D and American Standard
- Meets or exceeds FS TTP-1952F (Type I, II, III, IV)

COVERAGE
100 sq ft/gallon at 15 mil wet film
300 LF of 4" line/gallon at 15 mil wet film

PACKAGING
1 gallon can
5 gallon pail
55 gallon drum
275 gallon tote

SDS available upon request

591 Glendale Ave · Greenville, AL 36037 · P: 334.213.2995 · www.OzarkMaterials.net
SURFACE PREPARATION
Before applying coatings, the surface should be clean and dry; coating performance is in direct proportion to the quality of the surface preparation. The surface must be free of oil, grease, gasoline and moisture.

APPLICATION
• DO NOT MIX WITH WATER - this product comes ready mixed
• Do not apply when the temperature is below 50°F, except Type IV which can be applied as low as 35°F
• Do not heat coating in stripping system above 140°F
• Do not apply first coat over fresh asphalt at more than 7 mls wet
• New asphalt and concrete must be allowed to cure for a minimum of 30 days before application of product
• Do not leave water, or water mixed with non-subsiding cleaner, for more than 24 hours in spray equipment
• Use a mixture of glycol solution and water for storing spray equipment longer than 72 hours
• Surface temperature must be at least 5°F above dew point to prevent condensation
• Drop on Beads (Type I); usually parking lots do not require the use of glass beads, however if they are required, drop-on glass beads are applied at the rate of 3 to 4 pounds per gallon for parking lots and 6 to 8 pounds per gallon for standard road

LET'S GET TECHNICAL...

<table>
<thead>
<tr>
<th>Property</th>
<th>400 Series</th>
<th>500 Series</th>
<th>600 Series</th>
<th>700 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigment, % by weight (+/-2%)</td>
<td>61</td>
<td>61</td>
<td>61</td>
<td>58</td>
</tr>
<tr>
<td>Total Solids, % by weight (+/-2%)</td>
<td>76</td>
<td>77</td>
<td>77</td>
<td>76</td>
</tr>
<tr>
<td>Nonvolatile Vehicle, % by weight (+/-2%)</td>
<td>38</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Weight per gallon, lbs (+/-0.3)</td>
<td>14.0</td>
<td>14.0</td>
<td>14.0</td>
<td>13.80</td>
</tr>
<tr>
<td>Viscosity @ 77°F, KU</td>
<td>80-95</td>
<td>80-95</td>
<td>80-95</td>
<td>80-90</td>
</tr>
<tr>
<td>Grind (Hegman Gauge), Minimum</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Contrast Ratio, 5 mil wet, Minimum</td>
<td>0.95</td>
<td>0.95</td>
<td>0.95</td>
<td>0.95</td>
</tr>
<tr>
<td>Directional Reflectance % (White) 15 mil wet, Minimum</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
</tr>
<tr>
<td>Directional Reflectance % (Yellow) 15 mil wet, Minimum</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Field Dry Time</td>
<td>1-3</td>
<td>1-2</td>
<td>1-2</td>
<td>3-10</td>
</tr>
<tr>
<td>No track time @ ambient conditions, minutes</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>VOC g/l, maximum</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

WARRANTY
Ozark Materials, LLC warrants to the purchaser that this product shall be manufactured without defects. This limited warranty covers material replacement only. The shelf life shall be six months from the date of manufacture when stored properly. Excluded from coverage is labor, any damage to the application surface or any failure of the coating caused other than by defects in the material.

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MIXING
To get an even coverage of paint pigment, the paint should be agitated for 5 to 10 minutes. If necessary, strain the paint and remove any skins before mixing. Do not attempt to mix hardened paint films with liquid paint.

CLEAN UP
Immediately clean all equipment after use with fresh water to remove any partially dried material. If paint is dry, a solvent may be necessary, but be careful not to contaminate waterborne paints with solvents.

SAFETY PRECAUTIONS
For industrial use only. Not for residential use. See and read SDS and product labels before use. Safety precautions must be strictly followed during storage, handling and use.

SHELF LIFE
Waterborne paints are best utilized within three months of delivery, but remain usable for up to 12 months.
# WATERBORNE PAINT

**Revised Date:** 07-23-2015  **Supersedes:** 09-23-2014

## 1. Identification

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>WATERBORNE PAINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
<td>Road Marking Paint, Traffic Marking Paint</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Traffic Marking</td>
</tr>
<tr>
<td>Recommended restrictions</td>
<td>None known</td>
</tr>
<tr>
<td>General Assistance</td>
<td>334-213-2995</td>
</tr>
<tr>
<td>E-Mail</td>
<td><a href="mailto:contact@ozarkmaterials.net">contact@ozarkmaterials.net</a></td>
</tr>
<tr>
<td>Contact Person</td>
<td>Derron Henderson</td>
</tr>
</tbody>
</table>

**Emergency Telephone:** 404-786-1277

## 2. Hazard(s) Identification

### Physical hazards

- None known
- Acute toxicity, oral
- Acute toxicity, dermal
- Acute toxicity, inhalation
- Serious eye damage/eye irritation
- Germ cell mutagenicity
- Carcinogenicity
- Specific target organ toxicity, single exposure (lungs, liver, kidney, central nervous system)
- Specific target organ toxicity, repeated exposure (lungs)

**Category:**
- Category 4
- Category 3
- Category 3
- Category 2A
- Category 2
- Category 1A
- Category 1

### Health hazards

**Label elements**

![Label symbols]

**Signal word**

Danger

**Hazard statement**

Harmful if swallowed. Toxic in contact with skin or if inhaled. Causes serious eye irritation. Suspected of causing genetic defects. May cause cancer. Causes damage to lungs, liver, kidney, central nervous system. Causes damage to lungs through prolonged or repeated exposure.

### Precautionary statement

**Prevention**

Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protection clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray.

**IF SWALLOWED:** Immediately call a POISON CENTER or physician. Rinse mouth.

**IF ON SKIN:** Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Take off immediately all contaminated clothing & wash it before reuse.

**IF INHALED:** Remove victim to fresh air & keep at rest in a position comfortable for breathing.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present & easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**If exposed or concerned:** Call a POISON CENTER or physician.
Storage
Disposal
Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/Information on ingredients
Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>1317-65-3</td>
<td>0-65</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>0-10</td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>0-7</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>0-4</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>0-4</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>0.07-0.3</td>
</tr>
</tbody>
</table>

The criteria for listing components in the composition are as follows: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non-hazardous components may be listed at 3.0% or greater if not proprietary in nature. This is not intended to be complete compositional disclosure. Refer to section 15 for applicable states right-to-know and other regulatory information.

4. First-aid measures
Inhalation
Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Skin contact
Wash off immediately with plenty of water. Remove & wash contaminated clothing before reuse. If symptoms persist, call a physician.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Ingestion
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention & special treatment needed
In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information
If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire-fighting measures
Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
Combustion products may include and are not limited to Carbon oxides (COx), Nitrogen oxides (NOx).

Special 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.

6. Accidental release measures
Personal precautions, protective equipment & emergency procedures
Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental precautions
Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up
Prevent further leakage or spillage if safe to do so. Use personal protective equipment. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal.

7. Handling and storage
Precautions for safe handling
Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate (CAS#1317-65-3)</td>
<td>PEL(TWA)</td>
<td>15 mg/m³ (total dust), 5 mg/m³ (respirable)</td>
</tr>
<tr>
<td>Titanium dioxide (CAS#13463-67-7)</td>
<td>PEL(TWA)</td>
<td>15 mg/m³</td>
</tr>
<tr>
<td>Methanol (CAS# 67-56-1)</td>
<td>PEL(TWA)</td>
<td>260 mg/m³</td>
</tr>
<tr>
<td>Carbon black (CAS#1333-86-4)</td>
<td>PEL(TWA)</td>
<td>3.5 mg/m³</td>
</tr>
<tr>
<td>Quartz (CAS#14808-60-7)</td>
<td>PEL (TWA)</td>
<td>0.1 mg/m³ (vacated)</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate (CAS#1317-65-3)</td>
<td>8-hour TWA</td>
<td>15 mg/m³ (total dust), 5 mg/m³ (respirable)</td>
</tr>
<tr>
<td>Titanium dioxide (CAS#13463-67-7)</td>
<td>8-hour TWA</td>
<td>15 mg/m³ (total dust)</td>
</tr>
<tr>
<td>Methanol (CAS# 67-56-1)</td>
<td>8-hour TWA</td>
<td>260 mg/m³</td>
</tr>
<tr>
<td>Carbon black (CAS#1333-86-4)</td>
<td>8-hour TWA</td>
<td>3.5 mg/m³</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-2 (29 CFR 1910.1000) None of the components in this product is listed.

US. OSHA Table Z-3 Mineral dusts (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (CAS#14808-60-7)</td>
<td>TWA</td>
<td>10 mg/m³ (respirable)</td>
</tr>
<tr>
<td>%SiO₂+2</td>
<td></td>
<td>30 mg/m³ (Total dust)</td>
</tr>
<tr>
<td>%SiO₂+2</td>
<td></td>
<td>10 mg/m³ (respirable)</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS#13463-67-7)</td>
<td>TLV(TWA)</td>
<td>10 mg/m³ (total dust)</td>
</tr>
<tr>
<td>Methanol (CAS# 67-56-1)</td>
<td>TLV(STEL)</td>
<td>250 ppm</td>
</tr>
<tr>
<td>Carbon black (CAS#1333-86-4)</td>
<td>TLV(TWA)</td>
<td>3 mg/m³ (Inhalable)</td>
</tr>
<tr>
<td>Quartz (CAS#14808-60-7)</td>
<td>TLV(TWA)</td>
<td>0.025 mg/m³ (respirable)</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate (CAS#1317-65-3)</td>
<td>REL(TWA)</td>
<td>10 mg/m³ (total dust), 5 mg/m³ (respirable)</td>
</tr>
<tr>
<td>Methanol (CAS# 67-56-1)</td>
<td>REL(TWA)</td>
<td>260 mg/m³</td>
</tr>
</tbody>
</table>
Carbon black (CAS#1333-86-4)  REL(TWA)  3.5 mg/m³
Quartz (CAS#14808-60-7) REL(TWA) Ca 0.05 mg/m³ (respirable dust)

Appropriate engineering controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Individual protection measures, such as personal protective equipment

- Eye/face protection
- Skin protection
  - Hand protection
  - Other
- Respiratory protection
- Thermal hazards
- General hygiene considerations

Wear protective eyewear (safety glasses).

Protective gloves.

Impervious clothing. Dispose of contaminated gloves after use in accordance with applicable laws and good work hygiene practices.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Wear appropriate thermal protective clothing, when necessary.

Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Emulsion</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>White, Yellow, Black, Blue, Green, Red</td>
</tr>
<tr>
<td>Color</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Slight, Ammonia</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Available</td>
</tr>
<tr>
<td>pH</td>
<td>Not Available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not Available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 201°F (&gt;93.8°C)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not Available</td>
</tr>
<tr>
<td>Flammability limit – lower (%)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Flammability limit – upper (%)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Explosive limit - lower (%)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Explosive limit - upper (%)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not Available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not Available</td>
</tr>
<tr>
<td>Relative density (specific gravity)</td>
<td>1.55 - 1.75</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not Available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not Available</td>
</tr>
</tbody>
</table>
10. Stability and reactivity

Reactivity
Chemical stability
Stable under recommended storage conditions.
Possibility of hazardous reactions
Hazardous polymerization does not occur.
Conditions to avoid
None known based on information supplied.
Incompatible materials
Acids, strong oxidizing agents.
Hazardous decomposition Products
Carbon oxides. Nitrogen oxides (NOx).

11. Toxicological information

Information on likely routes of exposure

Ingestion

Harmful if swallowed. May cause blindness if swallowed. May cause additional affects as listed under "Inhalation".

Inhalation

Toxic if inhaled. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and in-coordination. Sanding and grinding dust may be harmful if inhaled.

Skin contact

Toxic in contact with skin. May cause irritation. Causes serious eye irritation.

Eye contact


Symptoms related to the physical, chemical & toxicological characteristics

Inhalation exposure to respirable levels of crystalline silica may cause respiratory impairment and lung damage. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). Inhalation, ingestion, or skin absorption of methanol can cause blindness.

Delayed & immediate effects & also chronic effects from short- and long-term exposure

Numerical measures of toxicity

Components
Titanium dioxide (CAS#13463-67-7)

<table>
<thead>
<tr>
<th>Test</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Rat</td>
<td>&gt;5000 mg/kg</td>
</tr>
<tr>
<td>Inhalation LC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Rat</td>
<td>&gt;3.43 mg/l</td>
</tr>
</tbody>
</table>

Methanol (CAS#67-56-1)

<table>
<thead>
<tr>
<th>Test</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Human</td>
<td>300 mg/kg</td>
</tr>
<tr>
<td>Dermal LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Human</td>
<td>1000 mg/kg</td>
</tr>
<tr>
<td>Inhalation LC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Human</td>
<td>10 mg/l</td>
</tr>
</tbody>
</table>

Propylene Glycol (CAS#57-55-6)

<table>
<thead>
<tr>
<th>Test</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Rat</td>
<td>22000 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
No data available.

Serious eye damage/eye irritation
Causes serious eye irritation.

Respiratory or skin sensitization
No data available.

Respiratory sensitization
No data available.

Skin sensitization
Suspected of causing genetic defects.

Germ cell mutagenicity
May cause cancer.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>2B “Possibly carcinogenic to humans”</td>
</tr>
<tr>
<td>Carbon black</td>
<td>2B “Possibly Carcinogenic to Humans”</td>
</tr>
<tr>
<td>Quartz</td>
<td>1 “Carcinogenic to humans”</td>
</tr>
</tbody>
</table>

NTP Report on Carcinogens

<table>
<thead>
<tr>
<th>Substance</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>Not listed.</td>
</tr>
<tr>
<td>Carbon black</td>
<td>Not listed.</td>
</tr>
<tr>
<td>Quartz</td>
<td>Known “Known to be a Human Carcinogen”</td>
</tr>
</tbody>
</table>

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None of the components in this product is listed.

Reproductive toxicity  
Specific target organ toxicity – single exposure  
Specific target organ toxicity – repeated exposure  
Aspiration hazard  
No data available.
Causes damage to lungs, liver, kidney, central nervous system.
Causes damage to lungs through prolonged or repeated exposure.  
No data available.

12. Ecological information

<table>
<thead>
<tr>
<th>Components</th>
<th>Test</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>Crustacea EC$_{50}$</td>
<td>Water flea ($Daphnia magna$)</td>
<td>&gt;100 mg/l, 48 Hours</td>
</tr>
<tr>
<td>Methanol</td>
<td>Fish EC$_{50}$</td>
<td>Bluegill ($Lepomis macrochirus$)</td>
<td>12700 mg/l, 96 Hours</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>Crustacea LC$_{50}$</td>
<td>Shrimp ($Mysidopsis bahia$)</td>
<td>18800 mg/l, 96 Hours</td>
</tr>
</tbody>
</table>

Persistence and degradability  
Bioaccumulative potential  
Mobility in soil  
Other adverse effects  
Not available  
Not available  
Not available  
None known

13. Disposal considerations

Disposal instructions  
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Hazardous waste code

- US RCRA Hazardous Waste F List: Reference  
  Methyl alcohol (CAS 67-56-1)  
  F039

- US RCRA Hazardous Waste U List: Reference  
  Methyl alcohol (CAS 67-56-1)  
  U154

Contaminated packaging  
Do not re-use empty containers.

14. Transport information

In Accordance with DOT  
Not regulated for transport.

In Accordance with IMDG  
Not regulated for transport.

In Accordance with IATA  
Not regulated for transport.

15. Regulatory information

US federal regulations  
This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  
None of the components in this product is regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)  
- Calcium carbonate (CAS#1317-65-3)
- Titanium dioxide (CAS#13463-67-7)
- Methanol (CAS#67-56-1)
- Carbon black (CAS#1333-86-4)
- Quartz (CAS#14808-60-7)

CERCLA Hazardous Substance List (40 CFR 302.4)  
Methanol (CAS 67-56-1) Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)  
Hazard categories  
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302/304 Extremely hazardous substance
None of the components in this product is listed.
SARA 311/312 Hazardous chemical Yes
SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>0-7</td>
</tr>
</tbody>
</table>

**Other federal regulations**

- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
  - Methanol (CAS 67-56-1)
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
  - Not listed.
- Safe Drinking Water Act (SDWA)
  - Not listed.

**US State regulations**

**WARNING:** This product contains chemicals known to the State of California to cause cancer.

**US. Massachusetts RTK – Substance List**
- Calcium carbonate (CAS#1317-65-3)
- Titanium dioxide (CAS#13463-67-7)
- Methanol (CAS#67-56-1)
- Carbon black (CAS#1333-86-4)
- Propylene Glycol (CAS#57-55-6)
- Quartz (CAS#14808-60-7)

**US. New Jersey Worker and Community Right-to-Know Act**
- Calcium carbonate (CAS 1317-65-3)
- Titanium dioxide (CAS#13463-67-7)
- Methanol (CAS 67-56-1)
- Carbon black (CAS#1333-86-4)
- Propylene Glycol (CAS 57-55-6)
- Quartz (CAS#14808-60-7)

**US. Pennsylvania Worker and Community Right-to-Know Law**
- Calcium carbonate (CAS 1317-65-3)
- Titanium dioxide (CAS#13463-67-7)
- Methanol (CAS 67-56-1)
- Carbon black (CAS#1333-86-4)
- Propylene Glycol (CAS 57-55-6)
- Quartz (CAS#14808-60-7)

**US. California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**
- Carbon black (CAS#1333-86-4)
- Quartz (CAS 14808-60-7)

**Canada regulations**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR).

**WHMIS classification**

- D1B Materials Causing Immediate and Serious Toxic Effects
- D2A Materials Causing Other Toxic Effects
- D2B Materials Causing Other Toxic Effects
<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Inventory of Existing &amp; New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>Existing Chemical List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Philippine Inventory of Chemicals &amp; Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A “Yes” indicates this product complies with the inventory requirements administered by the governing country(s).

A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

- **Issue date**: 09-23-2013
- **Revision date**: 07-23-2015
- **Version #**: 1

### NFPA Ratings

![NFPA Ratings Diagram]

- **1**: Flammability
- **0**: Reactivity
- **2**: Health

### References

- ACGIH: Documentation of the Threshold Limit Values and Biological Exposure indices
- ECHA: European Chemicals Agency
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- NIOSH: The National Institute for Occupational Safety and Health
- NTP: National Toxicology Program
- NLM: Hazardous Substances Data Base
- OECD: Organization for Economic Co-operation and Development
- OSHA: Occupational Safety and Health Administration

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Because of conditions of use are beyond our control, no guarantee, representation or warranty expressed or implied is made. We urge each customer or recipient of this SDS to study it carefully to become aware of and understand the potential hazards associated with the product. Customary precautionary measures for handling chemicals should be followed.

Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. Since conditions for use of this product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Any use of the product not in conformance with this SDS or in combination with any other product or process is the responsibility of the user. Consult Ozark Materials, LLC for further information.