OZARK MATERIALS, LLC

WATERBORNE PAINT

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

1. Identification

Product identifier	WATERBORNE PAINT
Synonyms	Road Marking Paint, Traffic Marking Paint
Recommended use	Traffic Marking
Recommended restrictions	None known
General Assistance	334-213-2995
E-Mail	contact@ozarkmaterials.net
Contact Person	Derron Henderson
Emergency Telephone	404-786-1277

2. Hazard(s) Identification

Physical hazards None known

Health hazards

Acute toxicity, oral	Category 4
Acute toxicity, dermal	Category 3
Acute toxicity, inhalation	Category 3
Serious eye damage/eye irritation	Category 2A
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1A
Specific target organ toxicity, single exposure (lungs, liver, kidney, central nervous system)	Category 1
Specific target organ toxicity, repeated exposure (lungs)	Category 1

Label elements

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/protective 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.

Response 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	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	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

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

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	Respiratory and lungs disorders. Skin disorders. Liver disorders. Kidney disorders. Central nervous system problem depression.
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	Keep container tightly closed. Keep in properly labeled containers. Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Type	Value
Calcium carbonate (CAS#1317-65-3)	PEL(TWA)	15 mg/m^3 (total dust), 5 mg/m^3 (respirable)
Titanium dioxide (CAS#13463-67-7)	PEL(TWA)	15 mg/m^3
Methanol (CAS# 67-56-1)	PEL(TWA)	260 mg/m^3
Carbon black (CAS#1333-86-4)	PEL(TWA)	3.5 mg/m^3
Quartz (CAS#14808-60-7)	PEL (TWA)	0.1 mg/m^3 (vacated)

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

Components	Type	Value
Calcium carbonate (CAS#1317-65-3)	8-hour TWA	15 mg/m^3 (total dust), 5 mg/m^3 (respirable)
Titanium dioxide (CAS#13463-67-7)	8-hour TWA	15 mg/m^3 (total dust)
Methanol (CAS# 67-56-1)	8-hour TWA	260 mg/m^3
Carbon black (CAS#1333-86-4)	8-hour TWA	3.5 mg/m^3

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)

Components	Type	Value
Quartz (CAS#14808-60-7)	TWA	10 mg/m^3 (respirable) %SiO_2+2 30 mg/m^3 (Total dust) %SiO_2+2

US. ACGIH Threshold Limit Values

Components	Type	Value
Titanium dioxide (CAS#13463-67-7)	TLV(TWA)	10 mg/m^3 (total dust)
Methanol (CAS# 67-56-1)	TLV(STEL)	250 ppm
Carbon black (CAS#1333-86-4)	TLV(TWA)	3 mg/m^3 (Inhalable)
Quartz (CAS#14808-60-7)	TLV(TWA)	0.025 mg/m^3 (respirable)

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Calcium carbonate (CAS#1317-65-3)	REL(TWA)	10 mg/m^3 (total dust), 5 mg/m^3 (respirable)
Methanol (CAS# 67-56-1)	REL(TWA)	260 mg/m^3

Carbon black (CAS#1333-86-4)	REL(TWA)	3.5 mg/m^3
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 Wear protective eyewear (safety glasses).

Skin protection

Hand protection Protective gloves.

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

Respiratory protection 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.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations 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

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

Viscosity	Not Available

10. Stability and reactivity

Reactivity	Not Available.
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.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical & toxicological characteristics	Respiratory and lungs disorders. Skin disorders. Liver disorders. Kidney disorders. Central nervous system depression.
Delayed & immediate effects & also chronic effects from short- and long-term exposure	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.

Numerical measures of toxicity

Components	Test	Species	Test Results
Titanium dioxide (CAS#13463-67-7)	Oral LD_{50}	Rat	>5000 mg/kg
	Inhalation LC_{50}	Rat	>3.43 mg/l
Methanol (CAS#67-56-1)	Oral LD_{50}	Human	300 mg/kg
	Dermal LD_{50}	Human	1000 mg/kg
	Inhalation LC_{50}	Human	10 mg/l
Propylene Glycol (CAS#57-55-6)	Oral LD_{50}	Rat	22000 mg/kg

Skin corrosion/irritation	No data available.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	
Respiratory sensitization	No data available.
Skin sensitization	No data available.
Germ cell mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS#13463-67-7)	2B "Possibly carcinogenic to humans".
Carbon black (CAS#1333-86-4)	2B "Possibly Carcinogenic to Humans".
Quartz (CAS#14808-60-7)	1 "Carcinogenic to humans".

NTP Report on Carcinogens

Titanium dioxide (CAS#13463-67-7)	Not listed.
Carbon black (CAS#1333-86-4)	Not listed.
Quartz (CAS#14808-60-7)	Known "Known to be a Human Carcinogen".

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

None of the components in this product is listed.

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

12. Ecological information

Numerical measures of toxicity

Components	Test	Species	Test Results
Titanium dioxide (CAS#13463-67-7)	Crustacea EC_{50}	Water flea (*Daphnia magna*)	>100 mg/l, 48 Hours
Methanol (CAS#67-56-1)	Fish EC_{50}	Bluegill (*Lepomis macrochirus*)	12700 mg/l, 96 Hours
Propylene Glycol (CAS#57-55-6)	Crustacea LC_{50}	Shrimp (*Mysidopsis bahia*)	18800 mg/l, 96 Hours

Persistence and degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Not available
Other adverse effects	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)

Chemical Name	CAS number	% by wt.
Methanol	67-56-1	0-7

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

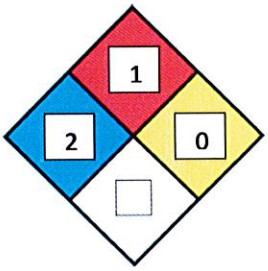
International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non- Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing & New Chemical Substances (ENCS)	Yes
Korea	Existing Chemical List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals & Chemical Substances (PICCS)	Yes
United States & Puerto Rico	United States & Puerto Rico	Yes

*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



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.