

# PREFORMED THERMOPLASTIC

Revised Date: 07-23-2015 Supersedes: 02-10-2012

### 1. Identification

Product identifier PREFORMED THERMOPLASTIC

Synonyms Thermoplastic Road Marking/Traffic Marking-Torch-Applied

**Recommended use Recommended restrictions**Traffic Marking
None known

Manufacturer

Ozark Materials, LLC 591 Glendale Ave. Greenville, AL 36037

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

Acute toxicity, inhalation

Serious eye damage/eye irritation

Germ cell mutagenicity

Category 2

Carcinogenicity

Category 2

Carcinogenicity

Category 1A

Specific target organ toxicity, single exposure; Respiratory tract irritation

Specific target organ toxicity, repeated exposure

Category 1

Category 1

Label

elements

Signal word Danger

Hazard statement Harmful if inhaled. Causes serious eye irritation. Suspected of causing genetic defects.

May cause cancer. May cause respiratory irritation. Causes damage to lungs through

prolonged or repeated exposure.

**Precautionary statement** 

**Prevention** Wear protective gloves/protective clothing/eye protection/face protection. Wash skin

thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or

smoke when using this product.

Response IF INHALED: Remove person to fresh air and Keep at rest in a position comfortable for

breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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

advice/attention if you feel unwell.

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 None known.

# 3. Composition/information on ingredients

xtures		
Chemical name	CAS number	%
Calcium carbonate	1317-65-3	30-45
Titanium dioxide	13463-67-7	0-15
Carbon black	1333-86-4	<3
Barium sulfate	7727-43-7	0-2
Quartz	14808-60-7	0-2

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 n	neasu	ıres

**Inhalation** Consult a physician if respiratory tract irritation occurs.

**Skin contact** Cool affected area as soon as possible in cold water; be sure to leave plastic in place.

Place furacin soluble dressing on plastic & surrounding area. Cover affected area with

protective bandage. Consult a physician in case of a severe burn.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Get medical attention.

**Ingestion** Rinse mouth thoroughly. Never give anything by mouth to a victim who is

unconscious or is having convulsions. Get medical attention immediately.

Most important

symptoms/effects, acute &

delayed

Indication of immediate medical attention & special treatment needed

**General information** 

ial observa

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under

Respiratory tract irritation, thermal burns from molten material, chronic exposure may

observation. Symptoms may be delayed.

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 Water spray, dry chemical, CO2, Foam

pose a silicosis risk.

Unsuitable extinguishing media Strong oxidizing agents.

Specific hazards arising from the chemical Carbon Monoxide.

Special protective equipment and

Wear self contained breathing apparatus in the positive mode to

precautions for firefighters avoid smoke and fumes. Avoid direct contact with water to

avoid splattering of molten plastic.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See

Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment

and cleaning up

Granular material may be scooped up or swept. Allow molten material to cool and then dispose of in accordance with Federal, State and Local

Regulations.

#### 7. Handling and storage

Precautions for safe handling

Avoid inhaling dust particles. Wash hands after use. Do NOT eat, drink, or smoke in work areas.

Conditions for safe storage, including any incompatibilities

Keep in a ventilated area when possible. Store in a cool, dry area and away from acids or oxidizers.

# 8. Exposure controls/personal protection

# **Occupational exposure limits**

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

Components	туре	value
Calcium carbonate (CAS#1317-65-3)	PEL (TWA)	15 mg/m <sup>3</sup> (total dust), 5 mg/m <sup>3</sup> (respirable)
Titanium dioxide (CAS#13463-67-7)	PEL (TWA)	15 mg/m <sup>3</sup>
Carbon black (CAS#1333-86-4)	PEL (TWA)	$3.5 \text{ mg/m}^3$

Barium sulfate (CAS#7727-43-7) PEL (TWA) 15 mg/m³ (total dust), 5 mg/m³ (respirable)

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

Components	Туре	Value
Calcium carbonate (CAS#1317-65-3)	8-hour TWA	15 mg/m³ (total dust), 5 mg/m³ (respirable)
Titanium dioxide (CAS#13463-67-7)	8-hour TWA	15 mg/m³ (total dust)
Carbon black (CAS#1333-86-4)	8-hour TWA	$3.5 \text{ mg/m}^3$
Barium sulfate (CAS#7727-43-7)	8-hour TWA	15 mg/m <sup>3</sup> (total dust), 5 mg/m <sup>3</sup> (respirable)

### 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	Туре	Value
Quartz (CAS#14808-60-7)	TWA	10 mg/m³ (respirable)
		%SiO <sub>2</sub> +2
		30 mg/m³ (Total dust)
		%SiO <sub>2</sub> +2

**US. ACGIH Threshold Limit Values** 

Components	Туре	Value
Titanium dioxide (CAS#13463-67-7)	TLV	10 mg/m³ (total dust)
Carbon black (CAS#1333-86-4)	TLV	3 mg/m³ (Inhalable)
Barium sulfate (CAS#7727-43-7)	TLV	5 mg/m <sup>3</sup>

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Calcium carbonate (CAS#1317-65-3)	REL (TWA)	10 mg/m³ (total dust), 5 mg/m³ (respirable)
Carbon black (CAS#1333-86-4)	REL (TWA)	$3.5 \text{ mg/m}^3$
Barium sulfate (CAS#7727-43-7)	REL (TWA)	10 mg/m <sup>3</sup> (total dust), 5 mg/m <sup>3</sup> (respirable)
Quartz (CAS#14808-60-7)	REL (TWA)	Ca 0.05 mg/m <sup>3</sup>
Appropriate engineering controls	Local exhaust recommended when generating excessive levels of airborne	

dust/vapors when heating plastic.

Individual protection measures, such as personal protective equipment



Skin protection

**Eye/face protection** Safety glasses; Eye goggles covered with face shield when handling molten plastic.

Hand protection
 Other
 Avoid exposures – obtain special instructions before use. Wear protective gloves.
 Wear heat resistant protective clothing & gloves when handling molten plastic.

Always carry first aid kit, water & ice during application.

**Respiratory protection** Use an approved/certified respirator or equivalent.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** Always wash hands after use & before eating, drinking or any other personal activity.

# 9. Physical and chemical properties

**Appearance** 

Physical state Solid Form Granular

Color White, Yellow, Black, Blue, Red, Green

Odor Alkyd oil
Odor threshold Not Available
pH Not Available

Melting point/freezing point 100-135°C (212-275°F) (Softening Point, R&B Method)

Initial boiling point and boiling range Not Available

Flash point >246.11 °C (>475 °F)(Closed Cup)

Evaporation rate Not Available Flammability (solid, gas) Not Available

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) 1.75-2.25 Solubility (water) Negligible 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 generally reactive under normal conditions

Chemical stability Stable at <246.11 °C (<475 °F)

Possibility of hazardous reactions Polymerization will not occur

Conditions to avoid Temperatures above 260 °C (500 °F), incompatible materials

Incompatible materials Acids, alum, ammonium salts, mercury & hydrogen, fluorine, magnesium

Hazardous decomposition Products Carbon Monoxide, Carbon Dioxide

# 11. Toxicological information

Information on likely routes of exposure

**Ingestion** Do not ingest.

Inhalation Harmful if inhaled. Overexposure may cause temporary respiratory

irritation.

**Skin contact** Moderate irritation, thermal burns may occur from molten material.

**Eye contact** Particulates may cause irritation to the eyes.

Symptoms related to the physical, Respiratory tract irritation, thermal burns from molten material, chronic

**chemical & toxicological characteristics** exposure may pose a silicosis risk.

Delayed & immediate effects & chronic Redness, pain, and inflammation of the eyelids, coughing, sneezing,

effects from short-& long-term exposure dyspnea, respiratory tract irritation, chronic rhinitis.

**Numerical measures of toxicity** 

**Skin corrosion/irritation**Based on available data, the classification criteria are not met.

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) Group 2B "Possibly Carcinogenic to Humans". Carbon Black (CAS#1333-86-4) Group 2B "Possibly Carcinogenic to Humans".

Quartz (CAS# 14808-60-7) Group 1 " Carcinogenic to Humans".

**NTP Report on Carcinogens** 

Quartz (CAS# 14808-60-7) Group 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**May cause respiratory irritation.

Specific target organ toxicity – repeated exposure Caus

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<sub>50</sub> Water flea (Daphnia magna) >100 mg/l, 48 Hours

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Other adverse effects

Not available

None known

13. Disposal considerations

**Disposal instructions** Dispose of in accordance with applicable Federal, State and Local Regulations.

Hazardous waste code

US RCRA Hazardous Waste U List: Not available.

**Contaminated packaging** Offer rinsed packaging material to local recycling facilities.

14. Transport information

In Accordance with DOT

In Accordance with IMDG

Not regulated for transport.

Not regulated for transport.

Not regulated for transport.

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)

Carbon black (CAS#1333-86-4)

Barium sulfate (CAS#7727-43-7)

Quartz (CAS#14808-60-7)

**CERCLA Hazardous Substance List (40 CFR 302.4)**None of the components in this product are regulated.

#### 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 Extremely hazardous substance**None of the components in this product are listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

None of the components in this product are listed.

#### Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

None of the components in this product is listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None of the components in this product is listed.

Safe Drinking Water Act (SDWA)

None of the components in this product is 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)

Carbon black (CAS #1333-86-4)

Barium sulfate (CAS # 7727-43-7)

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)

Carbon black (CAS #1333-86-4)

Barium sulfate (CAS # 7727-43-7)

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)

Carbon black (CAS #1333-86-4)

Barium sulfate (CAS # 7727-43-7)

Quartz (CAS #14808-60-7)

### **US. California Proposition 65**

# US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Substance List

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 D2A Materials Causing Other Toxic Effects (very toxic)



**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) Yes

Canada	Non- Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemical List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	United States & Puerto Rico	Yes

<sup>\*</sup>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
 02-10-2012

 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.