

PREFORMED THERMOPLASTIC SAFETY DATA SHEET

Revised Date: 10-3-2018 Supersedes: 07-23-2015

1. Identification

Product Identifier PREFORMED THERMOPLASTIC

Synonyms Thermoplastic Road Marking/Traffic Marking-Torch-Applied

Recommended use Traffic Marking
Recommended restrictions None known

Manufacturer/Supplier Ozark Materials, LLC

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General Assistance 334-213-2995

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2. Hazard(s) Identification

GHS CLASSIFICATION

Health Hazards Cold Form Molten/Heated Form

None Known Acute toxicity, inhalation Category 3
Serious eye damage/eye Category 2A

irritation

Germ cell mutagenicity Category 2
Carcinogenicity Category 1A
Specific target organ toxicity, Category 3

Specific target organ toxicity, single exposure; Respiratory

tract irritation

Specific target organ toxicity, Category 1

repeated exposure

Environmental Cold Form Molten/Heated Form

Acute Toxicity None Known Not Available
Chronic Toxicity None Known Not Available

Physical hazards Cold Form Molten/Heated Form

None Known None Known

Label elements None Required

Signal word Danger

Hazard statements Cold Form Molten/Heated Form

H315: Causes skin irritation H314: Causes severe skin burns and eye damage

H320: Causes eye irritation H332: Harmful if inhaled

H333: May be harmful if H335: May cause respiratory irritation.

inhaled

H341+ H350: Suspected of causing genetic defects: May cause

cancer

H372: Causes damage to organs through prolonged or repeated

exposure

Precautionary statements

Prevention P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P304: 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.

P305: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P337 + P313 IF EYE IRRITATION PERSISTS: Get medical advice/attention

P308 + P313: IF EXPOSED or CONCERNED: Get medical advice/attention. Get medical advice or

attention if you feel unwell.

Storage P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

Disposal P501: Dispose of contents/ container to an approved waste disposal plant.

Hazard(s) not otherwise classified (HNOC)

Cold Form Molten/Heated Form

None Known Molten/Heated product presents a thermal hazard.

3. Composition/information on ingredients

Mixtures

Chemical Name

(Common / Other Names)	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 measures

Inhalation Not applicable for Cold Form. Overexposure to hot fumes of molten material or dust from grinding

or cutting may cause irritation to the respiratory tract.

Skin contact Not applicable for Cold Form. Heated thermoplastic can cause serious burns to unprotected skin. If

molten material contacts your skin, flush with plenty of water and seek medical attention.

Do not attempt to remove the material from your SKIN!

Eye contact Not applicable for Cold Form. Overexposure to hot fumes of molten material or dust from grinding

or cutting may cause irritation to the eyes.

Ingestion Rinse mouth thoroughly.

Never give anything by mouth to a victim who is unconscious

Chronic (longterm) effects Prolonged or repeated contact may cause irritation.

5. Fire-fighting measures

Suitable extinguishing media Water spray, dry chemical, CO2, Foam

Unsuitable extinguishing media Strong oxidizing agents.

Specific hazards arising from the chemical Carbon Monoxide.

Special protective equipment and precautions

for firefighters

Wear self-contained breathing apparatus in the positive mode to 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

Avoid inhaling dust particles.

Wear protective clothing such as leather boots or work shoes, long pants, heat-resistant gloves, eye protection or face shield, and a safety

vest when applying product.

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 Type Value

Calcium carbonate (CAS#1317-65-3) PEL (TWA) 15 mg/m3 (total dust), 5 mg/m3 (respirable)

Titanium dioxide (CAS#13463-67-7) PEL (TWA) 15 mg/m3
Carbon black (CAS#1333-86-4) PEL (TWA) 3.5 mg/m3

Barium sulfate (CAS#7727-43-7) PEL (TWA) 15 mg/m3 (total dust), 5 mg/m3 (respirable)
Calcium carbonate (CAS#1317-65-3) 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 Type 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 mg/m3

Barium sulfate (CAS#7727-43-7) 8-hour TWA 15 mg/m3 (total dust), 5 mg/m3 (respirable)

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

Quartz (CAS#14808-60-7) TWA 10 mg/m3 (respirable) %SiO2+2, 30 mg/m3 (Total dust)

%SiO2+2

US. OSHA Table Z-2 (29 CFR 1910.1000)

None of the components in this product is listed

US. ACGIH Threshold Limit Values

Components Type Value

Titanium Dioxide (CAS#13463-67-7)

Carbon Black (CAS#1333-86-4)

Barium Sulfate (CAS#7727-43-7)

TLV

10 mg/m3 (total dust)

3 mg/m3 (Inhalable)

5 mg/m3

Titanium Dioxide (CAS#13463-67-7) TLV 10 mg/m3 (total dust)

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 mg/m3

Barium Sulfate (CAS#7727-43-7) REL (TWA) 10 mg/m3 (total dust), 5 mg/m3 (respirable)

Quartz (CAS#14808-60-7) REL (TWA) Ca 0.05 mg/m

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









Eye/face protection

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

Skin protection

Hand protection Avoid exposures – obtain special instructions before use. Wear

protective gloves.

Other Wear heat resistant protective clothing & gloves when handling molten

plastic. Always carry first aid kit, water & ice during application. *Wear protective clothing such as leather boots or work shoes, long pants, heat-resistant gloves, eye protection or face shield, and a safety vest when

applying product.

Respiratory protection If needed, use an approved/certified respirator or equivalent.

Thermal hazards Wear appropriate thermal protective clothing, when necessary such as Heat-

Resistant Gloves

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

activity. Avoid contact with the torch flame and molten material.

9. Physical and chemical properties

Appearance

Physical state Solid Form Granular

Colors 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 (%)
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 Negligible Solubility (water) Partition coefficient (n-octanol/water) **Not Available Auto-ignition temperature Not Available Decomposition temperature Not Available Not Available** Viscosity **Volatile Organic Compounds 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, chemical Respiratory tract irritation, thermal burns from molten material, chronic

& 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

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

Test Species Test Results
Oral LD50 Rat > 5000 mg/kg

Inhalation LC50 Rat >3.43 mg/l Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin corrosion/irritation

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 Causes damage to lungs through prolonged or repeated

exposure.

Aspiration hazard No data available.

12.	Eco	logica	l info	rmati	on

Numerical measures of toxicity

Components Test Species Test Results

Titanium dioxide (CAS# 13463-67-7) Crustacea EC50 Water flea (Daphnia magna) >100 mg/l, 48 Hours

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Other adverse effects

Not available

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 Container must be disposed of in accordance with local, state and federal

regulations.

14. Transport information

DOT, IATA, and IMDG

UN number Not regulated for transport.

Environmental hazards

Marine pollutant None known

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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, Subpart. 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.

SARA Title III Classification:

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.

Massachusetts RTK – Substance List Calcium carbonate (CAS #1317-65-3)

Titanium dioxide (CAS #13463-67-7)

New Jersey Worker and Community Rightto-Know Act Carbon black (CAS #1333-86-4) Barium sulfate (CAS # 7727-43-7)

Quartz (CAS #14808-60-7)

Pennsylvania Worker and Community Right-

to-Know Law

US. California Proposition 65

Carcinogens & Reproductive Toxicity (CRT): Carbon black (CAS #1333-86-4)
Substance List 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 Materials D2A 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

^{*}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).

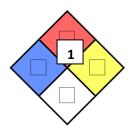
16. Other information, including date of preparation or last revision

Issue date 07-23-2015

Revision date 3-Oct-2018

Version # 1

NFPA Ratings



2 0

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

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