

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH)

1. PRODUCT IDENTIFICATION

Trade Name(s): PM Sealant
Product Description: Adhesives. Sealant.
Synonyms: N/A
CAS No: N/A

Supplier:
EPRO Services, Inc.
PO Box 347
Derby, KS 67037
800-882-1896 (8:00am – 5:00pm CST)

2. HAZARD(S) IDENTIFICATION

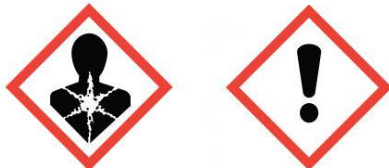
OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (49CFR1910.1200).

Classification of the substance or mixture

Acute toxicity-Oral-Category 4
Serious Eye Damage/Eye Irritation-Category 2A
Carcinogenicity-Category 1A
Reproductive Toxicity-Category 1B
Specific target organ toxicity (single exposure)-Category 1 (central nervous system)
Specific target organ toxicity (repeated exposure)-Category 1 (respiratory system)
Specific target organ toxicity (repeated exposure)-Category 2 (bladder)

GHS label elements

Hazard pictogram



Signal word: Danger

Hazard statements

Harmful if swallowed. Causes serious eye irritation. May cause cancer. May damage fertility or the unborn child. Cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear eye and face protection. Do not breathe dust/fumes/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product.

Response: If exposed, call a POISON CENTER or 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 attention. IF SWALLOWED, immediately call a POISON CENTER or physician. Rinse mouth. Get medical attention if you feel unwell.

Storage: Store locked up.

Disposal: Dispose of contents and container in accordance with all local, regional, national, and international regulations.

Statement of Unknown Acute Toxicity: Oral 71.91% of the mixture consists of ingredients of unknown acute toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	%	CAS Number
Calcium Carbonate	30-60	1317-65-3
Carbonic acid, calcium salt (1:1)	15-40	471-34-1
Titanium Dioxide	1-5	13463-67-7
Organosilane	1-5	2768-02-7
Dibutyltin oxide	0.1-1	818-08-6
Diisonoyl phthalate	15-40	28553-12-0
Carbon Black	0.05 - <0.1	1333-86-4

4. FIRST-AID MEASURES

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses if easy to do so. Continue rinsing. If irritation persists, get medical attention.

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call poison center or physician if you feel unwell.

Skin contact: Wash with plenty of soap and water. If skin irritation or rash occurs, get medical attention. Remove contaminated clothing and wash before reuse.

Ingestion: If swallowed, immediately call a poison center or physician. DO NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Acute

Harmful if swallowed. Causes serious eye irritation.

Delayed

May cause cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Use dry chemical, CO₂, water, or foam.

Unsuitable extinguishing media: Do not use high pressure water streams.

Specific hazards arising from the chemical: Upon decomposition, product emits carbon dioxide, carbon monoxide, and/or low molecular weight hydrocarbons.

Hazardous thermal decomposition products: Decomposition products may include carbon dioxide, carbon monoxide, and/or low molecular weight hydrocarbons.

Special protective actions for firefighters: Heating may cause an explosion. Containers may rupture or explode. Move containers from fire area if it can be done without risk. Avoid inhalation of vapors or combustion products. Dike for later disposal. Stay upwind and keep out of low areas.

Special protective equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protective clothing and equipment. See Section 8.

Methods and materials for containment and cleaning up

Keep unnecessary people away. Isolate hazard area and deny entry. In case of spillage, stop the flow of material and block any potential routes to water systems. Only personnel trained for the hazards of this material should perform clean up and disposal.

Environmental Precautions

Do not flush into sanitary sewer systems, drains, or surface water. Avoid release to the environment.

7. HANDLING AND STORAGE

Precautions for safe handling

Protective measures: Do not handle until all safety precautions have been read and understood. Keep away from all ignition sources. Avoid contact with eyes or skin. Do not eat, drink, or smoke when using this product. Always wear recommended personal protective equipment (section 8). Take precautionary measures against static discharge. Avoid release to the environment. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage, including any incompatibilities: Store locked up and in accordance with local regulations. Store in original container in a cool dry well-ventilated area away from incompatible materials. Empty containers may contain product residue. Avoid contact with temperatures above 120°C.

Incompatible Materials: Strong oxidizer. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component Exposure Limits

Calcium carbonate 1317-65-3	NIOSH: 10 mg/m ³ TWA total dust; 5 mg/m ³ TWA respirable dust OSHA (US): 15 mg/m ³ TWA total dust; 5 mg/m ³ TWA respirable fraction Mexico: 10 mg/m ³ TWA VLE-PPT 20 mg/m ³ STEL (PPT-T)
Carbonic acid, calcium salt (1:1) 471-34-1	NIOSH: 10 mg/m ³ TWA total dust; 5 mg/m ³ TWA respirable dust
Titanium dioxide 13463-67-7	ACGIH: 10 mg/m ³ TWA NIOSH: 2.4 mg/m ³ TWA (CIB 63) fine; 0.3 mg/m ³ TWA (CIB 63) ultrafine, including engineered nanoscale 5000 mg/m ³ IDLH OSHA (US): 15 mg/m ³ TWA total dust Mexico: 10 mg/m ³ TWA VLE-PPT as Ti 20 mg/m ³ STEEL (PPT-CT) as Ti
Carbon Black 1333-86-4	ACGIH: 3 mg/m ³ TWA inhalable particulate matter NIOSH : 3.5 mg/m ³ TWA ; 0.1 mg/m ³ TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons) as PAH 1750 mg/m ³ IDLH OSHA (US): 3.5 mg/m ³ TWA Mexico: 3.5 mg/m ³ TWA VLE-PPT 7 mg/m ³ STEL (PPT-CT)

ACGIH – Threshold Limit Values – Biological Exposure Indices (BEI): There are no biological limit values for any of this product's components.

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor, or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Wear splash resistance safety goggles with a face shield.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Wear appropriate chemical resistant clothing.

Respiratory protection: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid paste

Odor: Mild

pH: Not available

Boiling point: Not available

Flash point: 93.3°C (>200°F)

Flammability (solid, gas): Not available

Color: black, white, gray

Odor threshold: Not available

Melting point: Not available

Freezing point range: Not available

Evaporation rate: Not available

Auto-ignition temperature: Not available

Lower explosive (flammable) limit: Not available
Decomposition temperature: Not available
Vapor density: Not available
Water solubility: Slightly soluble
Viscosity: Not available
Solubility (Other): Not available
Molecular Weight: Not available

Upper explosive (flammable) limit: Not available
Vapor pressure: Not available
Specific gravity: 1.3 – 1.7
Partition coefficient n-octanol/water: Not available
Kinematic Viscosity: Not available
Density: Not available

10. STABILITY AND REACTIVITY

Reactivity: No reactivity hazard is expected.

Chemical stability: Product is stable at normal temperatures and pressure.

Possibility of hazardous reactions: Under normal conditions of storage and use hazardous will not polymerize.

Conditions to avoid: Avoid heat, flames, sparks, and other ignition sources. Avoid contact with incompatible materials and temperatures above 120°C (248°F).

Incompatible materials: Strong oxidizers and strong acids.

Hazardous decomposition products: Upon decomposition, this product emits carbon monoxide, carbon dioxide, and/or molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effect

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Carbonic acid, calcium salt (1:1)	Oral LD50	Rat	6450 mg/kg	4 hours
Titanium dioxide	Oral LD50	Rat	> 10000 mg/kg	
Organosilane	Oral LD50	Rat	7340 ml/kg	
Dibutyltin oxide	Oral LD50	Rat	44.9 mg/kg	
Diisononyl phthalate	Oral LD50	Rat	> 9750 mg/kg	
	Inhalation LC50	Rat	> 4.4 mg/l	
Carbon black	Oral LD50	Rat	> 15400 mg/kg	
Product toxicity- acute toxicity estimated	Oral LD50		1261.24 mg/kg	

Immediate effects: Harmful if swallowed. Causes serious eye irritation. May cause skin irritation. May be harmful if inhaled.

Acute Toxicity Estimate: Oral: 1261.241 mg/kg

Delayed effects: May cause cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

Irritation/Corrosion: Causes serious eye irritation.

Respiratory Sensitization: No information on significant adverse effects.

Dermal Sensitization: No information on significant adverse effects.

Component Carcinogenicity

Product/ingredient name	ACGIH	IARC	OSHA	NIOSH
Titanium Dioxide	A 4	Group 2 B	Yes	Potential Occupational Carcinogen
Carbon black	A 3	Group 2 B	Yes	Potential Occupational Carcinogen

Results of a DuPont epidemiology study showed that employees who had been exposed to titanium dioxide pigments were at no greater risks of developing lung cancer than were employees who had not been exposed to titanium dioxide pigments. No pulmonary fibrosis was found in any of the employees and no associations were observed between titanium dioxide pigment exposure and chronic respiratory disease or lung

abnormalities. Based on the results of this study, DuPont has concluded that titanium dioxide pigment will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

Germ Cell Mutagenicity: No information on significant adverse effects.

Tumorigenic Data: No information on significant adverse effects.

Reproductive toxicity: May damage fertility or the unborn child.

Specific target organ toxicity (single exposure): Central nervous system.

Specific target organ toxicity (repeated exposure): Respiratory system, bladder.

Aspiration hazard: No information on significant adverse effects.

Medical Conditions Aggravated by Exposure: No data available.

12. ECOLOGICAL INFORMATION (non-mandatory)

Toxicity: May cause long lasting harmful effects to aquatic life.

Product/ingredient name	Result	Species	Exposure
Diisononyl phthalate	LC50 100 mg/l (semi static)	Brachydanio rerio	96 hours
	LC50 > 0.14 mg/l (flow thru)	Lepomis macrochirus	96 hours
	LC50 > 0.17 mg/l (static)	Lepomis macrochirus	96 hours
	LC50 > 0.19 mg/l (flow thru)	Pimephales promelas	96 hours
	LC50 > 0.14 mg/l (static)	Pimephales promelas	96 hours
	EC50 > 500 mg/l (IUCLID)	Desmodesmus subspicatus	72 hours
	EC50 > 1.8 mg/l (static)	Pseudokirchneriella	96 hours
	EC50 > 500 mg/l (IUCLID)	Daphnia magna	48 hours
	EC50 > 0.06 mg/l (static)	Daphnia magna	48 hours

13. DISPOSAL CONSIDERATIONS (non-mandatory)

Disposal methods: Dispose of in accordance with all applicable local, state, regional, and federal regulations.

Component Waste Numbers: The US EPA has not published waste numbers for this product components.

14. TRANSPORT INFORMATION (non-mandatory)

DOT: Not regulated as a dangerous good.

IATA: Not regulated as a dangerous good.

ICAO: Not regulated as a dangerous good.

IMDG: Not regulated as a dangerous good.

International Bulk Chemical Code: This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Titanium dioxide (13463-67-7): IBC Code – Category Z (slurry)

15. REGULATORY INFORMATION (non-mandatory)

US Federal regulations: None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA 311/312: Carcinogenicity. Acute Toxicity. Reproductive Toxicity. Serious Eye damage/Eye irritation. Specific Target Organ Toxicity.

State regulations

California: The following components are listed: Carbon Black

Massachusetts: The following components are listed: Calcium carbonate, Titanium dioxide & Carbon Black

Minnesota: The following components are listed: Calcium carbonate, Titanium dioxide & Carbon Black

New Jersey: The following components are listed: Calcium carbonate, Titanium dioxide & Carbon Black

Pennsylvania: The following components are listed: Calcium carbonate, Titanium dioxide & Carbon Black

California Prop. 65

WARNING: This product can expose you to chemicals including Titanium dioxide, Diisononyl phthalate, and carbon black, which are known to the State of California to cause cancer.

Titanium dioxide: carcinogen, 9/2/2011 (airborne, unbound particles of respirable size)

Diisononyl phthalate: carcinogen, 12/20/2013

Carbon black: carcinogen, 2/21/2003 (airborne, unbound particles of respirable size)

Canada Regulations

Canadian WHMIS Ingredient Disclosure List (IDL): Components of this material have been checked against the list. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIX criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

Dibutyltin oxide (818-08-6): 1%

Carbon black (1333-86-4): 1%

Component Analysis – Inventory

	Calcium carbonate	Carbonic acid,calcium salt ((1:1)	Titanium dioxide	Organosilane	Dibutyltin oxide	Diisononyl phthalate	Carbon black
	1317-65-3	471-34-1	13463-67-7	2768-02-7	818-08-6	28553-12-0	1333-86-4
US	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CA	NSL	DSL	DSL	DSL	DSL	DSL	DSL
EU	EIN	EIN	EIN	EIN	EIN	EIN	EIN
AU	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PH	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JP-ENCS	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JP-ISHL	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KR KECI Annex 1	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KR KECI Annex 2	No	No	No	No	No	No	No
KR-REACH CCA	No	No	No	No	No	No	No
CN	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MX	Yes	Yes	Yes	Yes	No	Yes	Yes
TW	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VN (draft)	Yes	Yes	Yes	Yes	Yes	Yes	Yes

16. OTHER INFORMATION

This information provided on this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designated only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as 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.