

SAFETY DATA SHEET

In accordance with OSHA 29 CFR 1910.1200

SM7120 PU BRONZE
Revision Number 1

Revision date 12-Apr-2021
Supersedes Date: Not applicable

PERMATHANE SM7120 PU Polyurethane Sealant

1. Identification

1.1. Product Identifier

Product Name SM7120 PU BRONZE

Other means of identification

Other information Not applicable

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Adhesives and/or sealants
Restrictions on use No information available

1.3. Details of the supplier of the safety data sheet

Responsible Party

ITW Polymers Sealants North America
12055 Cutten Road, Houston, TX 77066
Tel: 972-438-9111

1.4. Emergency telephone number

Emergency Telephone CHEMTREC (US Transportation): (800) 424-9300

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Flammable Liquids	Category 4

Hazards not otherwise classified (HNOC)

Not applicable

2.2. Label Elements

EMERGENCY OVERVIEW

Danger

Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
Suspected of causing cancer
May cause damage to organs through prolonged or repeated exposure
Combustible liquid

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Appearance Paste

Physical state Liquid

Odor Solvent

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing must not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from flames and hot surfaces. - No smoking

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
IF ON SKIN: Wash with plenty of water and soap
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER or doctor
In case of fire: Use CO₂, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

18 % of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information

No information available.

3. Composition/information on ingredients

3.1. Substances

Not applicable.

Mixture

Chemical name	CAS No	Weight-%
Limestone	1317-65-3	10 - 30
Polyvinyl chloride	9002-86-2	10 - 30
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - <5
Titanium dioxide	13463-67-7	0.1 - <1
Ethylbenzene	100-41-4	0.1 - <1
Benzenesulfonyl isocyanate, 4-methyl-	4083-64-1	0.1 - <1

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4,4'-Methylenediphenyl diisocyanate	101-68-8	0.1 - <1
Quartz	14808-60-7	0.1 - <1
Carbon black	1333-86-4	0.1 - <1

**The exact percentage (concentration) of composition has been withheld as a trade secret*

4. First-aid measures

4.1. Description of first aid measures

General advice	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. May cause allergic respiratory reaction. (Call a physician if symptoms occur). If breathing is difficult, (trained personnel should) give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. May produce an allergic reaction. Get immediate medical advice/attention.
Self-protection of the first aider	Remove all sources of ignition. Use personal protective equipment as required. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	May cause sensitization in susceptible persons. May cause sensitization by inhalation and skin contact. Treat symptomatically.
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5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray or regular foam. Use water spray or fog; do not use straight streams. Move containers from fire area if you can do it without risk.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
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5.2. Special hazards arising from the substance or mixture

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Specific hazards arising from the chemical Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact.

Hazardous combustion products Carbon dioxide (CO₂). Hydrogen chloride. Sulfur oxides.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes. May be ignited by friction, heat, sparks or flames.

5.3. Advice for firefighters

Special protective equipment for fire-fighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. See section 8 for more information. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Wash thoroughly after handling.

Other information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Methods for cleaning up Use personal protective equipment as required. Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

Reference to other sections See section 8 for more information. See section 13 for more information.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Do not breathe vapor or mist. Use with local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take

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off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep in properly labeled containers. Keep out of the reach of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a dry, cool and well-ventilated place. Water reactive. Protect from moisture.

7.3 References to other sections

Reference to other sections

Section 10: STABILITY AND REACTIVITY
Section 13: DISPOSAL CONSIDERATIONS

8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Limestone 1317-65-3	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Polyvinyl chloride 9002-86-2	TWA: 1 mg/m ³ respirable particulate matter	-	-
Xylenes (o-, m-, p- isomers) 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m ³	-
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³ TWA: 2.4 mg/m ³ CIB 63 fine TWA: 0.3 mg/m ³ CIB 63 ultrafine, including engineered nanoscale
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m ³	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m ³

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		(vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³	STEL: 125 ppm STEL: 545 mg/m ³
		(vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m ³	
4,4'-Methylenediphenyl diisocyanate 101-68-8	TWA: 0.005 ppm	(vacated) Ceiling: 0.02 ppm regulated under Methylene bisphenyl isocyanate (vacated) Ceiling: 0.2 mg/m ³ regulated under Methylene bisphenyl isocyanate Ceiling: 0.02 ppm Ceiling: 0.2 mg/m ³	IDLH: 75 mg/m ³ Ceiling: 0.020 ppm 10 min Ceiling: 0.2 mg/m ³ 10 min TWA: 0.005 ppm TWA: 0.05 mg/m ³
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable particulate matter	TWA: 50 µg/m ³ TWA: 50 µg/m ³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m ³ respirable dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust
Carbon black 1333-86-4	TWA: 3 mg/m ³ inhalable particulate matter	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH

Chemical name	Argentina	Brazil	Chile	Colombia
Limestone 1317-65-3	TWA: 10 mg/m ³	-	TWA: 7 mg/m ³	-
Polyvinyl chloride 9002-86-2	-	TWA: 1 mg/m ³	-	TWA: 1mg/m ³
Xylenes (o-, m-, p- isomers) 1330-20-7	TWA: 100 ppm STEL: 150 ppm	TWA: 78 ppm TWA: 340 mg/m ³	TWA: 87 ppm TWA: 380 mg/m ³	STEL: 150ppm TWA: 100ppm
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-	TWA: 10mg/m ³
Ethylbenzene 100-41-4	TWA: 100 ppm STEL: 125 ppm	TWA: 78 ppm TWA: 340 mg/m ³	TWA: 87 ppm TWA: 380 mg/m ³	TWA: 20ppm
4,4'-Methylenediphenyl diisocyanate 101-68-8	TWA: 0.005 ppm	TWA: 0.005 ppm	TWA: 0.004 ppm TWA: 0.05 mg/m ³	TWA: 0.005ppm
Quartz	TWA: 0.05 mg/m ³	TWA: 0.025 mg/m ³	TWA: 0.08 mg/m ³	TWA: 0.025mg/m ³

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14808-60-7				
Carbon black 1333-86-4	TWA: 3.5 mg/m ³	TWA: 3 mg/m ³	-	TWA: 3mg/m ³

Chemical name	Costa Rica	Peru	Uruguay	Venezuela
Polyvinyl chloride 9002-86-2	TWA: 1mg/m ³	-	1 mg/m ³ TWA (respirable particulate matter)	-
Xylenes (o-, m-, p- isomers) 1330-20-7	TWA: 100ppm STEL: 150ppm	STEL: 150ppm STEL: 651mg/m ³ TWA: 100ppm TWA: 434mg/m ³	150 ppm STEL 100 ppm TWA	Skin STEL: 150 ppm TWA: 100 ppm
Titanium dioxide 13463-67-7	TWA: 10mg/m ³	TWA: 10mg/m ³	10 mg/m ³ TWA	TWA: 10 mg/m ³
Ethylbenzene 100-41-4	TWA: 20ppm	STEL: 125ppm STEL: 543mg/m ³ TWA: 100ppm TWA: 434mg/m ³	20 ppm TWA	Skin STEL: 125 ppm TWA: 100 ppm
4,4'-Methylenediphenyl diisocyanate 101-68-8	TWA: 0.005ppm	TWA: 0.005ppm TWA: 0.051mg/m ³	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))	TWA: 0.005 ppm
Quartz 14808-60-7	TWA: 0.025mg/m ³	TWA: 0.05mg/m ³	0.025 mg/m ³ TWA (respirable particulate matter)	TWA: 0.025 mg/m ³
Carbon black 1333-86-4	TWA: 3mg/m ³	TWA: 3.5mg/m ³	3 mg/m ³ TWA (inhalable particulate matter)	TWA: 3.5 mg/m ³

8.2. Exposure controls

OTHER INFORMATION

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Methyl alcohol 67-56-1	STEL: 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m ³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³

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Chemical name	ACGIH TLV	OSHA PEL	NIOSH
		(vacated) S*	

Chemical name	Argentina	Brazil	Chile	Colombia
Methyl alcohol 67-56-1	TWA: 200 ppm Skin STEL: 250 ppm	TWA: 156 ppm TWA: 200 mg/m ³ Skin	TWA: 175 ppm TWA: 229 mg/m ³ Skin	STEL: 250ppm TWA: 200ppm

Chemical name	Costa Rica	Peru	Uruguay	Venezuela
Methyl alcohol 67-56-1	TWA: 200ppm STEL: 250ppm	STEL: 250ppm STEL: 328mg/m ³ TWA: 200ppm TWA: 262mg/m ³	250 ppm STEL 200 ppm TWA	Skin STEL: 250 ppm TWA: 200 ppm

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

Skin and body protection Wear suitable protective clothing.

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.

General hygiene considerations Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Paste
Color bronze

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Odor Solvent
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	74.4 °C / 165.9 °F	
Evaporation rate	No data available	None known
Flammability (solid, gas)	Not applicable for liquids	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

9.2. Other information

Explosive properties	No information available	
Oxidizing properties	No information available	
Solvent content (%)	No information available	
Solid content (%)	No information available	
Softening Point	No information available	
Molecular weight	No information available	
VOC Content (%)	17.4 g/L / 1.31 %	EPA Method 24
Density	1.42 g/cm ³	
Bulk density	No information available	

10. Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Chemical stability Stable under normal conditions. Reacts with water.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization may occur.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Extremes of temperature and direct sunlight. Storage near to reactive materials. Keep from any possible contact with water.

10.5. Incompatible materials

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Incompatible materials Water. Alcohols. Strong oxidizing agents. Strong acids. Finely powdered metals. Chlorinated compounds.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapors Carbon monoxide Carbon dioxide (CO₂) Nitrogen oxides (NO_x) Hydrogen cyanide

11. Toxicological information

11.1. Information on toxicological effects

Product Information

Inhalation May cause sensitization in susceptible persons. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Eye contact Based on available data, the classification criteria are not met.

Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.

Ingestion May cause additional effects as listed under "Inhalation".

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 93,418.10 mg/kg
ATEmix (dermal) 52,768.10 mg/kg
ATEmix (inhalation-dust/mist) 119.30 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Limestone 1317-65-3	>5000 mg/kg (Rattus)	-	-
Xylenes (o-, m-, p- isomers) 1330-20-7	=3500 mg/kg (Rattus)	> 1700 mg/kg (Oryctolagus cuniculus) > 4350 mg/kg (Oryctolagus cuniculus)	=>47635 mg/L (Rattus) 4 h = >5000 ppm (Rattus) 4 h
Titanium dioxide 13463-67-7	>10000 mg/kg (Rattus)	LD50 > 10000 mg/Kg	>5 mg/l
Ethylbenzene 100-41-4	=3500 mg/kg (Rattus)	= 15400 mg/kg (Oryctolagus cuniculus)	=17.4 mg/L (Rattus) 4 h
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	=2234 mg/kg (Rattus)	LD 50 (Rattus) > 2000 mg/kg OECD 402	>640 ppm (Rattus) 1 h
4,4'-Methylenediphenyl	=31600 mg/kg (Rattus)	LD 50 > 9400 mg/kg	=1.5 mg/L (Rattus) 4 h

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diisocyanate 101-68-8	= 9200 mg/kg (Rattus)	(Oryctolagus cuniculus) OECD 402	
Quartz 14808-60-7	>2000 mg/kg (Rattus)	-	-
Carbon black 1333-86-4	LD50 > 8000 mg/kg (Rattus) OECD 401	> 3 g/kg (Oryctolagus cuniculus)	> 4.6 mg/m ³ (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion					Non-irritant

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

4,4'-Methylenediphenyl diisocyanate (101-68-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye	0.1 mL	24 hours	Non-irritant

Respiratory or skin sensitization

May cause sensitization by inhalation. May cause sensitization by skin contact.

Titanium dioxide (13463-67-7)

4,4'-Methylenediphenyl diisocyanate (101-68-8)

Method	Species	Exposure route	Results
OECD GD 39	Rat	Inhalation	Sensitizing

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer. As Titanium dioxide (13463-67-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses. As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses. As Carbon black (1333-86-4) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Polyvinyl chloride 9002-86-2	-	Group 3	-	-
Xylenes (o-, m-, p- isomers) 1330-20-7	-	Group 3	-	-
Titanium dioxide 13463-67-7	-	Group 2B	-	X
Ethylbenzene 100-41-4	A3	Group 2B	-	X
4,4'-Methylenediphenyl diisocyanate 101-68-8	-	Group 3	-	-
Quartz 14808-60-7	A2	Group 1	Known	X

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Carbon black 1333-86-4	A3	Group 2B	-	X
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Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Titanium dioxide (13463-67-7)

Method	Species	Results
Oral	Rat	Not Carcinogenic
Inhalation Xu et al (2010), carcinogenic activity of nanoscale TiO ₂ administered by an intrapulmonary spraying (IPS) - initiation-promotion protocol in rat lung	Rat	Carcinogenic

4,4'-Methylenediphenyl diisocyanate (101-68-8)

Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Limited evidence of a carcinogenic effect

Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target organ effects	Lungs, Eyes, Respiratory system, Skin.
Aspiration hazard	Based on available data, the classification criteria are not met.
Other adverse effects	No information available.
Interactive effects	No information available.

12. Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Limestone 1317-65-3	CE50 (72h) >200mg/L Algae (<i>Desmodesmus subspicatus</i>)	CL50 (96h) >10000mg/L (<i>Oncorhynchus mykiss</i>)	-	CE50 (48h) >1000 mg/L Daphnia Magna
Xylenes (o-, m-, p-isomers) 1330-20-7	-	LC50 96 h 2.6 mg/L (<i>Oncorhynchus mykiss</i>) (OECD 203)	EC50 = 0.0084 mg/L 24 h	EC50 48 h = 3.4 mg/L (Daphnia magna)
Titanium dioxide 13463-67-7	LC50 (96h) >10000 mg/l (<i>Cyprinodon variegatus</i>) OECD 203	-	-	-
Ethylbenzene	EC50 72 h 2.6 - 11.3	LC50 96 h = 4.2 mg/L	EC50 = 9.68 mg/L 30 min	EC50: 1.8 - 2.4mg/L

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100-41-4	mg/L (Pseudokirchneriella subcapitata)	(Oncorhynchus mykiss semi-static)	EC50 = 96 mg/L 24 h	(48h, Daphnia magna)
4,4'-Methylenediphenyl diisocyanate 101-68-8	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	>1000 mg/l (Danio rerio)	-	EC50 (24H) >1000 mg/L Daphnia magna
Carbon black 1333-86-4	>10000 mg/l (Desmodesmus subspicatus) OECD 202	>1000 mg/l (Brachydanio rerio) OCDE 203	-	EC50: >5600mg/L (24h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
Limestone 1317-65-3	0.9
Xylenes (o-, m-, p- isomers) 1330-20-7	3.15
Ethylbenzene 100-41-4	3.2
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	0.6
4,4'-Methylenediphenyl diisocyanate 101-68-8	4.51

12.4. Mobility in soil

Mobility No information available.

Other adverse effects

Other adverse effects No information available.

13. Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Contaminated packaging Dispose of in accordance with federal, state and local regulations.

14. Transport information

Note: The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition) The information shown here, may not always agree with the bill of lading shipping description for the material 49

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CFR 173.150(f)(2) "The requirements in this subchapter do not apply to a material classed as a combustible liquid in a non-bulk packaging unless the combustible liquid is a hazardous substance, a hazardous waste, or a marine pollutant."

DOT

UN/ID No NA1993
Proper Shipping Name Combustible liquid, n.o.s.
Transport hazard class(es) Combustible liquid
Packing Group III
Special Provisions IB3, T1, TP1, 148
Marine Pollutant Np
Description NA1993, Combustible liquid, n.o.s.(Xylenes (o-, m-, p- isomers)), Combustible liquid, III,
Emergency Response Guide Number 128

IATA Not regulated

IMDG Not regulated

15. Regulatory information

International Inventories

TSCA	Listed
DSL	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	CAS No	SARA 313 - Threshold Values %
Xylenes (o-, m-, p- isomers)	1330-20-7	1.0
Ethylbenzene	100-41-4	0.1
4,4'-Methylenediphenyl diisocyanate	101-68-8	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

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California Proposition 65

This product contains one or more of the substances listed on Proposition 65 at or above 0.1 wt.%

Chemical Name	CAS NO
Ethylbenzene	100-41-4
Furan	110-00-9
Carbon Black	1333-86-4
Quartz	14808-60-7
Titanium dioxide	13462-67-7
Methyl alcohol	67-56-1
Di-isodecyl phthalate	68515-49-1
Nickel	7440-02-0
Cobalt	7440-48-4
Acetaldehyde	75-07-0
Propylene Oxide	75-56-9
Silica	7631-86-9
Cumene	98-82-8
Toluene	108-88-3
Ethanol	64-17-5

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation

SVHC: Substances of Very High Concern for Authorization:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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16. Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Prepared By Product Safety & Regulatory Affairs.

Revision date 12-Apr-2021

Revision note No information available.

Disclaimer

The information provided in 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 designed only as a guidance 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet