# **SAFETY DATA SHEET**



Date of issue/Date of revision 8 August 2024 Version 4

Section 1. Identification		
Product name	: PITT-THERM 909 BEIGE RESIN	
Product code	: 00470109	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	f the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)	
Technical Phone Number	: 888-977-4762	

## Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 28.2% (oral), 42.8% (dermal), 44.3% (inhalation)
GHS label elements	

**GHS label elements** 

Product name PITT-THERM 909 BEIGE RESIN

## Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (bladder, hearing organs)</li> </ul>
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 and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	: Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

#### Substance/mixture Product name

: Mixture

: PITT-THERM 909 BEIGE RESIN

Ingredient name	%	CAS number
xylene	≥20 - ≤27	1330-20-7
Sodium borate silicate	≥10 - ≤20	50815-87-7
acetone	≥10 - ≤18	67-64-1
Siloxanes and Silicones, di-Me, hydroxy-terminated	≥5.0 - ≤10	70131-67-8
glass, oxide, chemicals	≥5.0 - ≤10	65997-17-3
ethylbenzene	≥1.0 - ≤4.8	100-41-4
trimethoxyphenylsilane	≥1.0 - ≤3.6	2996-92-1
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	≥1.0 - ≤3.3	68909-20-6
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥1.0 - ≤5.0	2530-83-8
butan-1-ol	≤1.2	71-36-3
toluene	<1.0	108-88-3

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.
Over-exposure sig	ns/symptoms

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## Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li></ul>
Specific treatments	The exposed person may need to be kept under medical surveillance for 48 hours. <li>No specific treatment.</li>
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

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## Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
Methods and materials for co	ntainment and cleaning up	
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	

## Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
xylene	OSHA PEL (United States, 5/2018).
	[Xylenes]
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	ACGIH TLV (United States, 7/2023). [p-
	xylene and mixtures containing p-xylene]
	Ototoxicant.
	TWA: 20 ppm 8 hours.
Sodium borate silicate	None.
acetone	ACGIH TLV (United States, 7/2023).
	STEL: 500 ppm 15 minutes.
	TWA: 250 ppm 8 hours.
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## Section 8. Exposure controls/personal protection

	OSHA PEL (United States, 5/2018).
	TWA: 2400 mg/m <sup>3</sup> 8 hours.
	TWA: 1000 ppm 8 hours.
Siloxanes and Silicones, di-Me, hydroxy-terminated	None.
glass, oxide, chemicals	ACGIH TLV (United States).
	TWA: 1 f/cc Form: Continuous filament glass
	fibers
	TWA: 5 mg/m³, (Inhalable) Form:
	Continuous filament glass fibers
	TWA: 3 mg/m³ Form: Respirable TWA: 10 mg/m³ Form: Total dust
	OSHA PEL (United States).
	TWA: 15 mg/m <sup>3</sup>
	TWA: 15 mg/m³ Form: Respirable
	TWA: 15 mg/m <sup>3</sup> Form: Total dust
	ACGIH TLV (United States, 7/2023).
	[Continuous filament glass fibers]
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction
	TWA: 1 f/cc 8 hours. Form: Respirable fibers:
	length greater than 5 uM; aspect ratio equal to
	or greater than 3:1 as determined by the
	membrane filter method at 400-450X
	magnification (4-mm objective) phase contrast
	illumination.
ethylbenzene	ACGIH TLV (United States, 7/2023).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours.
trimethoxyphenylsilane	None.
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with	None.
silica	None.
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	None.
butan-1-ol	ACGIH TLV (United States, 7/2023).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 300 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
toluene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 7/2023).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
Key to abbreviations	S - Dotoptial skip shaarotian
A = Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists.	S = Potential skin absorption SR = Respiratory sensitization
C = Ceiling Limit	SS = Skin sensitization
F = Fume	STEL = Short term Exposure limit values
Г	
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= Internal Permissible Exposure Limit

## Section 8. Exposure controls/personal protection

Recommended monitoring procedures	Reference should be made to appropriate monitoring standards. Reference to nation uidance documents for methods for the determination of hazardous substances wi lso be required.	
Appropriate engineering controls	Jse only with adequate ventilation. Use process enclosures, local exhaust ventilation ther engineering controls to keep worker exposure to airborne contaminants below ecommended or statutory limits. The engineering controls also need to keep gas, apor or dust concentrations below any lower explosive limits. Use explosion-proof entilation equipment.	/ any
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure ney comply with the requirements of environmental protection legislation. In some ases, fume scrubbers, filters or engineering modifications to the process equipmer <i>i</i> ll be necessary to reduce emissions to acceptable levels.	
Individual protection measur		
Hygiene measures	Vash hands, forearms and face thoroughly after handling chemical products, before ating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Vash contaminated clothing before reusing. Ensure that eyewash stations and safe howers are close to the workstation location.	
Eye/face protection	Chemical splash goggles and face shield.	
Skin protection		
Hand protection Gloves	Chemical-resistant, impervious gloves complying with an approved standard should vorn at all times when handling chemical products if a risk assessment indicates thi becessary. Considering the parameters specified by the glove manufacturer, check luring use that the gloves are still retaining their protective properties. It should be oted that the time to breakthrough for any glove material may be different for different love manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.	is is c
	Recommended: polyvinyl alcohol (PVA), Viton®, neoprene, butyl rubber /lay be used: nitrile rubber	
Body protection	Personal protective equipment for the body should be selected based on the task be performed and the risks involved and should be approved by a specialist before andling this product. When there is a risk of ignition from static electricity, wear an tatic protective clothing. For the greatest protection from static discharges, clothing hould include anti-static overalls, boots and gloves.	ıti-
Other skin protection	appropriate footwear and any additional skin protection measures should be selecter ased on the task being performed and the risks involved and should be approved b pecialist before handling this product.	

- R = Respirable
- Ζ = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

#### Consult local authorities for acceptable exposure limits.

= Occupational Safety and Health Administration.

IPEL

OSHA

TD = Total dust

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- = Threshold Limit Value
- = Time Weighted Average
- TLV
- TWA

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## Section 8. Exposure controls/personal protection

Respiratory protection	: 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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.
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## Section 9. Physical and chemical properties

Appearance			
Physical state	1	Liquid.	
Color	1	Beige.	
Odor	1	Aromatic.	
Odor threshold		Not available.	
рН		Not applicable.	
Melting point		Not available.	
Boiling point		>37.78°C (>100°F)	
Flash point	4	Closed cup: -12°C (10.4°F)	
Auto-ignition temperature		Not available.	
Decomposition temperature	4	Not available.	
Flammability	4	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Evaporation rate	1	Not available.	
Vapor pressure	1	Not available.	
Vapor density	1	Not available.	
Relative density	1	0.53	
Density(lbs / gal)	:	4.42	
<b>-</b> • • • • • • •		Media R	tesult
Solubility(ies)	1	cold water N	lot soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Viscosity	:	Kinematic (40°C (104°F)): >21	1 mm²/s (>21 cSt)
Volatility	:	33% (v/v), 51.623% (w/w)	
% Solid. (w/w)	:	48.377	

## Section 10. Stability and reactivity

Reactivity	÷	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.

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## Section 10. Stability and reactivity

Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-	
-	LD50 Oral	Rat	4.3 g/kg	-	
acetone	LC50 Inhalation Vapor	Rat	76000 mg/m <sup>3</sup>	4 hours	
	LD50 Dermal	Rabbit	15.8 g/kg	-	
	LD50 Oral	Rat	5800 mg/kg	-	
Siloxanes and Silicones, di-	LD50 Oral	Rat	>5000 mg/kg	-	
Me, hydroxy-terminated					
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours	
-	LD50 Dermal	Rabbit	17.8 g/kg	-	
	LD50 Oral	Rat	3.5 g/kg	-	
trimethoxyphenylsilane	LD50 Dermal	Rabbit	3014 mg/kg	-	
	LD50 Oral	Rat	1049 mg/kg	-	
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica	LD50 Oral	Rat	3.16 g/kg	-	
[3-(2,3-epoxypropoxy)propyl]	LC50 Inhalation Dusts and mists	Rat	>5.3 mg/l	4 hours	
trimethoxysilane					
	LD50 Oral	Rat	7.01 g/kg	-	
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours	
	LD50 Dermal	Rabbit	3400 mg/kg	-	
	LD50 Oral	Rat	790 mg/kg	-	
toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours	
	LD50 Dermal	Rabbit	8.39 g/kg	-	
	LD50 Oral	Rat	5580 mg/kg	-	

Conclusion/Summary

: There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>x</b> ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary					

Skin Eyes : There are no data available on the mixture itself.

: There are no data available on the mixture itself.

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## Section 11. Toxicological information

Respiratory	: There are	e no data av	vailable on the mixture itself.
Sensitization			
Conclusion/Summary			
Skin	: There are	e no data av	vailable on the mixture itself.
Respiratory	: There are	e no data av	vailable on the mixture itself.
Mutagenicity			
<b>Conclusion/Summary</b>	: There are	e no data av	vailable on the mixture itself.
<b>Carcinogenicity</b>			
<b>Conclusion/Summary</b>	: There are	e no data av	vailable on the mixture itself.
<b>Classification</b>			
Product/ingradiant name			NTD

Product/ingredient name	OSHA	IARC	NTP
kylene glass, oxide, chemicals ethylbenzene toluene	- - -	3 3 2B 3	- - -

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

#### Reproductive toxicity

**Conclusion/Summary** : There are no data available on the mixture itself.

#### **Teratogenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
Sodium borate silicate	Category 3	-	Respiratory tract irritation
acetone	Category 3	-	Narcotic effects
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
toluene	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
trimethoxyphenylsilane	Category 2 Category 2 Category 2 Category 2	- oral -	hearing organs bladder - -

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### Section 11. Toxicological information

#### **Target organs**

: Contains material which causes damage to the following organs: brain, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, gastrointestinal tract, upper respiratory tract, immune system, skin, ears, eye, lens or cornea.

#### **Aspiration hazard**

N	lame	Result
е	thylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/s	<u>ymptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering
Inhalation	redness Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	<ul> <li>Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>
Ingestion	<ul> <li>Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>
Delayed and immediate	effects and also chronic effects from short and long term exposi

Delayed and immediate effects and also chronic effects from short and long term exposure

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## Section 11. Toxicological information

Conclusion/Summary	:	There are no data available on the mixture itself. Trimethoxysilanes are capable of
-		forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or
		fatal or cause blindness. Exposure to component solvent vapor concentrations in
		excess of the stated occupational exposure limit may result in adverse health effects
		such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache,
		dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of
		consciousness. Solvents may cause some of the above effects by absorption through
		the skin. There is some evidence that repeated exposure to organic solvent vapors in
		combination with constant loud noise can cause greater hearing loss than expected
		from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation
		and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic
		effects of components from short-term and long-term exposure by oral, inhalation and
		dermal routes of exposure and eye contact.
Short term exposure		
Potential immediate	1	There are no data available on the mixture itself.
effects		
Potential delayed effects	4	There are no data available on the mixture itself.
<u>Long term exposure</u>		
Potential immediate	4	There are no data available on the mixture itself.
effects		
Potential delayed effects		There are no data available on the mixture itself.
Potential chronic health effe	ect	<u>s</u>
General	4	May cause damage to organs through prolonged or repeated exposure. Prolonged or
		repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	1	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity		Suspected of damaging fertility or the unborn child.
itopioudolite toxicity	1	Supported of damaging formity of the disport of ma.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
TT-THERM 909 BEIGE RESIN	5276.5	3228.1	N/A	20.0	2.6
xylene	4300	1700	N/A	11	1.5
acetone	5800	15800	N/A	76	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
trimethoxyphenylsilane	1049	3014	N/A	N/A	N/A
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-,	3160	N/A	N/A	N/A	N/A
hydrolysis products with silica					
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	7010	N/A	N/A	N/A	N/A
butan-1-ol	790	3400	N/A	24	N/A
toluene	5580	8390	N/A	49	N/A

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## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
acetone	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
	Acute LC50 5540 mg/l	Fish	96 hours
Siloxanes and Silicones, di- Me, hydroxy-terminated	Acute LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Acute EC50 255 mg/l Fresh water	Algae	72 hours
	Acute EC50 473 mg/l	Daphnia	48 hours
	Acute LC50 55 mg/l	Fish	96 hours
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
zcetone ethylbenzene [3-(2,3-epoxypropoxy)propyl] trimethoxysilane	- - -	79 % - Rea	eadily - 28 days dily - 10 days readily - 28 days	- - -		- - -
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
xýlene acetone ethylbenzene [3-(2,3-epoxypropoxy)propyl] trimethoxysilane toluene	- - - -		- - - -		Readily Readily Readily Not rea	dily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	Low
acetone	-0.23	3	Low
ethylbenzene	3.6	79.43	Low
butan-1-ol	1	-	Low
toluene	2.73	8.32	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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## Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### 14. Transport information

	normation		
	DOT	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	II	П	II
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (Ibs)	362.97	Not applicable.	Not applicable.
RQ substances	(xylene, ethylbenzene)	Not applicable.	Not applicable.

**Additional information** 

**DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**IMDG** : None identified.

IATA : None identified.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

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## Section 15. Regulatory information

#### **United States**

United States inventory (TSCA 8b) : All components are active or exempted.

#### SARA 302/304

**SARA 304 RQ** 

: Not applicable.

**Composition/information on ingredients** 

No products were found.

#### SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 2
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	HNOC - Defatting irritant

#### **Composition/information on ingredients**

Name	%	Classification
<b>X</b> ylene	≥20 - ≤27	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1
Sodium borate silicate	≥10 - ≤20	SKIN IRRITATION - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
acetone	≥10 - ≤18	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
Siloxanes and Silicones, di-Me, hydroxy-terminated	≥5.0 - ≤10	HNOC - Defatting irritant
ethylbenzene	≥1.0 - ≤4.8	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
trimethoxyphenylsilane	≥1.0 - ≤3.6	ACUTE TOXICITY (oral) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
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#### Product name PITT-THERM 909 BEIGE RESIN

## Section 15. Regulatory information

•			
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis	≥1.0 - ≤3.3	COMBUSTIBLE DUSTS SPECIFIC TARGET ORGAN TOXICITY (REPEATED	
products with silica		EXPOSURE) - Category 2	
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	≥1.0 - ≤5.0	SERIOUS EYE DAMAGE - Category 1	
butan-1-ol	≤1.2	FLAMMABLE LIQUIDS - Category 3	
		ACUTE TOXICITY (oral) - Category 4	
		SKIN IRRITATION - Category 2	
		SERIOUS EYE DAMAGE - Category 1	
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	
		(Respiratory tract irritation) - Category 3	
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	
		(Narcotic effects) - Category 3	
		HNOC - Defatting irritant	
toluene	<1.0	FLAMMABLE LIQUIDS - Category 2	
		SKIN IRRITATION - Category 2	
		TOXIC TO REPRODUCTION - Category 2	
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	
		(Narcotic effects) - Category 3	
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED	
		EXPOSURE) - Category 2	
		ASPIRATION HAZARD - Category 1	
		HNOC - Defatting irritant	
		=	

#### **SARA 313**

Supplier notification	Chemical name	<u>CAS number</u>	Concentration
	: xvlene	1330-20-7	10 - 30
	ethylbenzene	100-41-4	1 - 5
	butan-1-ol	71-36-3	0.5 - 1.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

#### California Prop. 65

**WARNING**: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)

Flammability : 3 Physical hazards : Health : 3 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Flammability : 3 Health : 3 Instability : 0

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### Section 16. Other information

Date of previous issue	: 2/26/2024	
Organization that prepared the SDS	: EHS	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations	3

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.