SAFETY DATA SHEET

PITT-THERM 909 BEIGE RESIN



Date of issue 8 August 2024

Version 1.01

1. Product and company identification

i i roddot and company identification			
Product name	: PITT-THERM 909 BEIGE RESIN		
Product code	: 00470109		
Product type	: Liquid.		
Relevant identified uses	of 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.		
Supplier's details	: PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Japan; Tel: +81-78-574-2777		
Emergency telephone number	: 078 574 2777		

2. Hazards identification

GHS Classification	: FLAMMABLE LIQUIDS - Category 2
	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
	GERM CELL MUTAGENICITY - Category 2
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 2
	HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -
	Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Danger
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Product code 00470109 Product name PITT-THERM S	Date of issue 8 August 2024 Version 1.01 09 BEIGE RESIN
2. Hazards identifi	cation
Hazard statements	 Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs. (central nervous system (CNS), kidneys, liver, respiratory organs) Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), gastrointestinal tract, hearing organs, immune system, kidneys, nervous system, respiratory organs) Toxic to aquatic life with long lasting effects.
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 only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response	: Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. 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. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

CAS number	: Not applicable.
CSCL number	: Not available.

Ingredient name	%	CAS number	CSCL
Xylene	25 - <50	1330-20-7	3-3; 3-60
Sodium borate silicate	15 - <20	50815-87-7	1-70
Acetone	15 - <20	67-64-1	2-542
Ethyl Benzene	3 - <5	100-41-4	3-28; 3-60
trimethoxyphenylsilane	3 - <5	2996-92-1	3-2635
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	3 - <5	68909-20-6	Not available.
2-{[3-(Trimethoxysilyl)propoxy]methyl}oxirane	2 - <3	2530-83-8	2-2071
1-Butanol	1 - <2	71-36-3	2-3049
Silica	1 - <2	7631-86-9	1-548
Toluene	0.1 - <0.2	108-88-3	3-2; 3-60
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3. Composition/information on ingredi	ents	

 Methanol
 0.1 - <0.2</th>
 67-56-1
 2-201

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.

SUB codes represent substances without registered CAS Numbers.

4. First aid measures

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	 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. 	
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 irritation.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin.
Ingestion	 Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations

Product code 00470109 Product name PITT-THERM	1 909	Date of issue 8 August 2024 Version 1.01 BEIGE RESIN	
4. First aid measures			
	r i s dical a	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations <u>attention and special treatment needed, if necessary</u>	
Notes to physician		In case of inhalation of decomposition products in a fire, symptoms may be delayed The exposed person may need to be kept under medical surveillance for 48 hours.	
Specific treatments	: 1	No specific treatment.	
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	

See toxicological information (Section 11)

5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.	
Unsuitable extinguishing media	: Do not use water jet.	
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.	
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.	

6. Accidental release measures

Personal precautions, protec	tive 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. Avoid breathing 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".
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6. Accidental release measures

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). Water polluting material. May be harmful to
	the environment if released in large quantities. Collect spillage.

Methods and materials for containment 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. : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and Large spill 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 noncombustible, 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.

7. Handling and storage

Precautions for safe : Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handling 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. Avoid release to the environment. 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 nonsparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage : 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. See Section 10 for incompatible materials before handling or use.

8. Exposure controls/personal protection

Control parameters Occupational exposure limits

8. Exposure controls/personal protection

Ingredient name	Exposure limits
Kylene	Industrial Safety and Health Act (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 50 ppm 8 hours.
Acetone	OEL-M: 217 mg/m ³ 8 hours. Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 475 mg/m ³ 8 hours. OEL-M: 200 ppm 8 hours.
	Industrial Safety and Health Act (Japan, 6/2020). TWA: 500 ppm 8 hours.
Ethyl Benzene	Japan Society for Occupational Health (Japan, 5/2023). Absorbed through skin. OEL-M: 87 mg/m ³ 8 hours. OEL-M: 20 ppm 8 hours.
1-Butanol	Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours. Japan Society for Occupational Health
	(Japan, 5/2023). Absorbed through skin. OEL-C: 150 mg/m ³ OEL-C: 50 ppm Industrial Safety and Health Act (Japan, 6/2020).
Toluene	TWA: 25 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). Absorbed through skin. OEL-M: 188 mg/m ³ 8 hours. OEL-M: 50 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020).
Methanol	TWA: 20 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). Absorbed through skin. OEL-M: 260 mg/m ³ 8 hours. OEL-M: 200 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 200 ppm 8 hours.
procedures national gu	should be made to appropriate monitoring standards. Reference to uidance documents for methods for the determination of hazardous s will also be required.
controls or other er below any keep gas,	with adequate ventilation. Use process enclosures, local exhaust ventilation ngineering controls to keep worker exposure to airborne contaminants recommended or statutory limits. The engineering controls also need to vapor or dust concentrations below any lower explosive limits. Use proof ventilation equipment.
Environmental exposure : Emissions controls : they comp cases, fur	from ventilation or work process equipment should be checked to ensure ly with the requirements of environmental protection legislation. In some ne scrubbers, filters or engineering modifications to the process equipment ressary to reduce emissions to acceptable levels.

8. Exposure controls/personal protection

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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection	: Chemical splash goggles and face shield.
Skin protection	
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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: polyvinyl alcohol (PVA), Viton®, neoprene, butyl rubber May be used: nitrile rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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.

9. Physical and chemical properties

<u>Appearance</u>		
Physical state	: Liquid.	
Color	: Beige.	
Odor	: Aromatic.	
Boiling point	: >37.78°C (>100°F)	
Flash point	: Closed cup: -12°C (10.4°F	-)
Relative density	: 0.53	
Solubility(ies)	Media	Result
Solubility(165)	. cold water	Not soluble

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.			
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.			
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			

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
X ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Acetone	LC50 Inhalation Vapor	Rat	76000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	15.8 g/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
Ethyl Benzene	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-	LD50 Oral	Rat	3.16 g/kg	-
N-(trimethylsilyl)-, hydrolysis				
products with silica				
2-{[3-(Trimethoxysilyl)	LC50 Inhalation Dusts and mists	Rat	>5.3 mg/l	4 hours
propoxy]methyl}oxirane				
	LD50 Oral	Rat	7.01 g/kg	-
1-Butanol	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
Silica	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat - Male,	>5000 mg/kg	-
		Female		
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
Methanol	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
▼ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Japan

11. Toxicological information

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
Sodium borate silicate	Category 3	-	Respiratory tract irritation
Acetone	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Ethyl Benzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-{[3-(Trimethoxysilyl)propoxy]methyl}oxirane	Category 3	-	Respiratory tract irritation
1-Butanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Silica	Category 3	-	Respiratory tract irritation
Toluene	Category 1	-	central nervous system (CNS)
	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects
Methanol	Category 1	-	central nervous system (CNS), systemic toxicity, visual organ
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

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11. Toxicological information

Name	Category	Route of exposure	Target organs
Xylene	Category 1	-	nervous system, respiratory organs
Acetone	Category 1	-	central nervous system (CNS), gastrointestinal tract, respiratory organs
Ethyl Benzene	Category 1	-	hearing organs, nervous system
trimethoxyphenylsilane	Category 2	oral	bladder
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	Category 2	-	-
1-Butanol	Category 1	-	central nervous system (CNS), hearing organs
Silica	Category 1	-	immune system, kidneys, respiratory organs
Toluene	Category 1	-	central nervous system (CNS), kidneys
Methanol	Category 1	-	central nervous system (CNS), visual organ

Aspiration hazard

Name	Result
Ethyl Benzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of expo

osu	re		

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin.
Ingestion	 Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: pain or irritation watering redness

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11. Toxicologi	cal information			
Inhalation	: Adverse symptoms may respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations	include the following:		
Skin contact	: Adverse symptoms may irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations	include the following:		
Ingestion	: Adverse symptoms may reduced fetal weight increase in fetal deaths skeletal malformations	include the following:		
Delayed and immediat	increase in fetal deaths skeletal malformations	from short and long term exposure		

Delayed and immediate effect	ts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
General	: Causes 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	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: Suspected of causing genetic defects.
Reproductive toxicity	: May damage fertility or the unborn child.

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/l)
TT-THERM 909 BEIGE RESIN	16702.9	3408.7	N/A	20.0	N/A
Xylene	4300	1700	N/A	11	N/A
Acetone	5800	15800	N/A	76	N/A
Ethyl Benzene	3500	17800	N/A	17.8	N/A
trimethoxyphenylsilane	1049	3014	N/A	N/A	N/A
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	3160	N/A	N/A	N/A	N/A
2-{[3-(Trimethoxysilyl)propoxy]methyl}oxirane	7010	N/A	N/A	N/A	N/A
<u>.</u>	I	•		Japan	Page: 11/16

Other information

Prolonged or repeated contact may dry skin and cause irritation. 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. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Avoid contact with skin and clothing.

12. Ecological information

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Toxicity

Product/ingredient name	Result	Species	Exposure
Acetone	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa -	48 hours
		Copepodid	
	Acute LC50 5540 mg/l	Fish	96 hours
Ethyl Benzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2-{[3-(Trimethoxysilyl)	Acute EC50 255 mg/l Fresh water	Algae	72 hours
propoxy]methyl}oxirane			
	Acute EC50 473 mg/l	Daphnia	48 hours
	Acute LC50 55 mg/l	Fish	96 hours
1-Butanol	Acute LC50 1376 mg/l	Fish	96 hours
Silica	Acute EC50 2.2 g/L Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 >10000 mg/l	Fish	96 hours
	Chronic NOEC 12.5 mg/l Fresh water	Daphnia - Daphnia magna -	21 days
		Neonate	
Methanol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Acetone Ethyl Benzene 2-{[3-(Trimethoxysilyl) propoxy]methyl}oxirane	- - -	79 % - Rea	eadily - 28 days dily - 10 days readily - 28 days	- - -		- -
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Vylene Acetone Ethyl Benzene 2-{[3-(Trimethoxysilyl) propoxy]methyl}oxirane Toluene	- - - -		- - - -		Readily Readily Readily Not rea	/ / adily

Bioaccumulative potential

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Product name PITT-THERM 909 BEIGE RESIN

12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	7.4 to 18.5	Low
Acetone	-0.23	3	Low
Ethyl Benzene	3.6	79.43	Low
1-Butanol	1	-	Low
Toluene	2.73	8.32	Low
Methanol	-0.77	-	Low

<u>Mobility in soil</u>	
Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.
Other adverse effects	: No known significant effects or critical hazards.

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.

14. Transport information

	UN	IMDG	ΙΑΤΑ	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class(es)	3	3	3	
Packing group	II	II	II	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	

Additional information

UN	: None identified.	
IMDG	: None identified.	

the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

15. Regulatory information

Fire Service Law

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Category IV	Class I petroleums	II	Flammable - Keep Fire Away	200 L

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
Xylene	28	Class 1	80
Boron compounds	19	Class 1	405
Ethylbenzene	4.9	Class 1	53
Trimethoxy-[3-(oxiran-2-ylmethoxy)propyl]silane	2.0	Class 1	693

Industrial Safety and Health Act

Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

Ingredient name	%		Reference number
ethyl benzene	≤10	Special Organic Solvents	3-3

Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
KyleneAcetoneSynthetic mineral fiberEthylbenzeneButanolCrystalline silica	≥20 - ≤30	Listed	136
	≥10 - ≤20	Listed	17
	≤10	Listed	314
	≤10	Listed	70
	≤10	Listed	477
	≤10	Listed	165-2

Chemicals requiring notification

Ingredient name	%	Status	Reference number
X ylene	≥20 - ≤30	Listed	136
Acetone	≥10 - ≤20	Listed	17
Ethylbenzene	≤10	Listed	70
Butanol	≤10	Listed	477
Crystalline silica	≤10	Listed	165-2
Toluene	≤10	Listed	407
Methanol	≤10	Listed	560

Carcinogens based on Article 577-2 of the Ordinance on ISH

Product code 00470109 Product name PITT-THERM 909 BEIGE RESIN		Date	Date of issue 8 August 2024		
15. Regulatory in	formation				
Ingredient name		%	Status	Reference number	
silicon dioxide		≤10	Listed	-	
Mutagen None of the components ar	e listed.				
Corrosive liquid	: Not listed				
Occupational Safety and Health Law	: Inflammable				
Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed				
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed				
Harmful Substances, Prohibited for Manufacturing	: Not listed				
ISHL Enforcement Order Appendix 1 - Dangerous Substances	: Inflammable				
Lead regulation	: Not listed				
Organic solvents poisoning prevention	: Class 2				
Poisonous and Deleterious	Substances				
None of the components are	listed.				

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
X ylene	≥20 - ≤30	Priority assessment	125
Ethylbenzene	≤10	Priority assessment	50
1-Butanol	≤10	Priority assessment	124
Toluene	≤10	Priority assessment	46
Benzene	≤10	Priority assessment	45

High Pressure Gas Control : Not available. Law

Explosives Control Law

None of the components are listed.

Law concerning prevention	1	Not available.
of pollution of the ocean		

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

Container class

15. Regulatory information

None of the components are listed.

Road law	: Not available.
Japan inventory	: All components are listed or exempted.
List of Specially Controlled Industrial Waste	: Not listed
JSOH Carcinogen	: Group 2B

16. Other information

<u>History</u>	
Date of issue/Date of revision	: 8 August 2024
Date of previous issue	: 8/8/2024
Version	: 1.01
Prepared by	: EHS
Key to abbreviations	 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = 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) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations

✓ Indicates information that has changed from previously issued version.

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