SAFETY DATA SHEET



Date of issue/Date of revision 18 April 2024 Version 1

Section 1. Identification				
Product name	: SIGMATHERM 500			
Product code	: 000001201700			
Other means of identification	: 00476796; 00476797			
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	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A 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 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 20.9% (oral), 65.5% (dermal), 28.4% (inhalation)

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Section 2. Hazards identification

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

GHS label elements Hazard pictograms	
Signal word	: Warning
Hazard statements	 Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. 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. (hearing organs)
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. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: 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. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.
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Section 2. Hazards identification

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Product name

500

Other mean identification

SIGMATHERM

: 00476796; 00476797

IS	ot			

Ingredient name	%	CAS number
Aluminium powder (stabilized)	≥20 - ≤50	7429-90-5
xylene	≥20 - ≤26	1330-20-7
Solvent naphtha (petroleum), heavy arom.	≥10 - ≤14	64742-94-5
Solvent naphtha (petroleum), light aromatic	≥1.0 - ≤5.0	64742-95-6
ethylbenzene	≥1.0 - ≤5.0	100-41-4
1,2,4-trimethylbenzene	≥1.0 - ≤5.0	95-63-6
3-ethyltoluene	≥1.0 - ≤5.0	620-14-4
Zeolites	≥1.0 - ≤5.0	1318-02-1
stearic acid	≥0.10 - ≤2.6	57-11-4
titanium dioxide	≤1.0	13463-67-7
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	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
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.

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Section 4. First aid measures : Harmful if inhaled. May cause respiratory irritation. Inhalation Skin contact : Causes skin irritation. Defatting to the skin. : No known significant effects or critical hazards. Ingestion Over-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: pain or irritation watering redness : Adverse symptoms may include the following: Inhalation respiratory tract irritation coughing 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 : Adverse symptoms may include the following: Ingestion reduced fetal weight increase in fetal deaths skeletal malformations Indication of immediate medical attention and special treatment needed, if necessary Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. : No specific treatment. **Specific treatments 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

give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

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Specific hazards arising from the chemical	: 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.
Unsuitable extinguishing media	: Do not use water jet.
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Extinguishing media	

self-contained breathing apparatus. It may be dangerous to the person providing aid to

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Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon 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. 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". 			
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.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures	obtain spi handle un or on skir adequate not enter original co tightly clo any other material h measures and can b	propriate personal protective equipment (see Section 8). Avoid exposure - ecial instructions before use. Avoid exposure during pregnancy. Do not til all safety precautions have been read and understood. Do not get in eyes or clothing. Do not breathe vapor or mist. Do not ingest. Use only with ventilation. Wear appropriate respirator when ventilation is inadequate. Do storage areas and confined spaces unless adequately ventilated. Keep in the ontainer or an approved alternative made from a compatible material, kept sed when not in use. Store and use away from heat, sparks, open flame or ignition source. Use explosion-proof electrical (ventilating, lighting and andling) equipment. Use only non-sparking tools. Take precautionary against electrostatic discharges. Empty containers retain product residue hazardous. Do not reuse container.
Special precautions	source of floors. M contamin the risks o or in meta be remov If this may the other	ay accumulate in low or confined areas or travel a considerable distance to a ignition and flash back. Vapors are heavier than air and may spread along aterials such as cleaning rags, paper wipes and protective clothing, which are ated with the product may spontaneously self-ignite some hours later. To avoid of fires, all contaminated materials should be stored in purpose-built containers al containers with tight-fitting, self-closing lids. Contaminated materials should ed from the workplace at the end of each working day and be stored outside. erial is part of a multiple component system, read the Safety Data Sheet(s) for component or components before blending as the resulting mixture may have ds of all of its parts.
Advice on general occupational hygiene	handled, drinking a	inking and smoking should be prohibited in areas where this material is stored and processed. Workers should wash hands and face before eating, nd smoking. Remove contaminated clothing and protective equipment before eating areas. See also Section 8 for additional information on hygiene 5.
Conditions for safe storage, including any incompatibilities	with local container from inco Eliminate closed an carefully r	ween the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance regulations. Store in a segregated and approved area. Store in original protected from direct sunlight in a dry, cool and well-ventilated area, away mpatible materials (see Section 10) and food and drink. Store locked up. all ignition sources. Separate from oxidizing materials. Keep container tightly d sealed until ready for use. Containers that have been opened must be esealed and kept upright to prevent leakage. Do not store in unlabeled s. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

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Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
aluminium powder (stabilised)	ACGIH TLV (United States, 1/2023).
	[Aluminum, metal and insoluble
	compounds]
	TWA: 1 mg/m ³ 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m ³ , (as Al) 8 hours. Form:
	Respirable fraction
	TWA: 15 mg/m³, (as Al) 8 hours. Form: Total
	dust
xylene	OSHA PEL (United States, 5/2018).
	[Xylenes (o-, m-, p-isomers)]
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	ACGIH TLV (United States, 1/2023). [p-
	xylene and mixtures containing p-xylene]
	Ototoxicant.
	TWA: 20 ppm 8 hours.
Solvent naphtha (petroleum), heavy arom.	None.
Solvent naphtha (petroleum), light aromatic	None.
ethylbenzene	ACGIH TLV (United States, 1/2023).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m ³ 8 hours.
1,2,4-trimethylbenzene	TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023).
2 othultoluono	TWA: 10 ppm 8 hours. None.
3-ethyltoluene Zeolites	ACGIH TLV (United States, 1/2023).
Zeomes	•
	[Aluminum, metal and insoluble
	compounds]
	TWA: 1 mg/m ³ 8 hours. Form: Respirable
stearic acid	fraction
steand actu	ACGIH TLV (United States, 1/2023).
	[Stearates]
	TWA: 10 mg/m³ 8 hours. Form: Inhalable
	fraction
	TWA: 3 mg/m ³ 8 hours. Form: Respirable fraction
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 1/2023).
	TWA: 2.5 mg/m ³ 8 hours. Form: respirable
	fraction, finescale particles
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, 1/2023).
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Section 8. Exposure controls/personal protection

•	· · · ·	Ototoxicant.
		TWA: 20 ppm 8 hours.
		- 11 -
C = Ceiling Limit F = Fume IPEL = Internal Permissible Expos OSHA = Occupational Safety and H R = Respirable	overnmental Industrial Hygienists. ure Limit ealth Administration. Subpart Z - Toxic and Hazardous Substances	S= Potential skin absorptionSR= Respiratory sensitizationSS= Skin sensitizationSTEL= Short term Exposure limit valuesTD= Total dustTLV= Threshold Limit ValueTWA= Time Weighted Average
Recommended monitoring : procedures		riate monitoring standards. Reference to national the determination of hazardous substances will
Appropriate engineering : controls	other engineering controls to keep wo recommended or statutory limits. The	se process enclosures, local exhaust ventilation or rker exposure to airborne contaminants below any e engineering controls also need to keep gas, ny lower explosive limits. Use explosion-proof
Environmental exposure : controls	they comply with the requirements of	ocess equipment should be checked to ensure environmental protection legislation. In some neering modifications to the process equipment to acceptable levels.
Individual protection measures		
Hygiene measures :	eating, smoking and using the lavator Appropriate techniques should be use	oughly after handling chemical products, before y and at the end of the working period. Id to remove potentially contaminated clothing. eusing. Ensure that eyewash stations and safety ocation.
Eye/face protection :	Chemical splash goggles.	
Skin protection		
Hand protection :	worn at all times when handling chem necessary. Considering the parameter during use that the gloves are still retar noted that the time to breakthrough fo glove manufacturers. In the case of n protection time of the gloves cannot b	
Gloves :	For prolonged or repeated handling, u May be used: nitrile rubber Recommended: polyvinyl alcohol (PV/	

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Section 8. Exposure controls/personal protection

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 antistatic 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. The respiratory protection shall be in accordance to 29 CFR 1910.134.

Section 9. Physical and chemical properties

Appearance			
Physical state	1	Liquid.	
Color	÷	Gray.	
Odor	1	Aromatic. [Slight]	
Odor threshold	1	Not available.	
рН	÷	Not applicable.	
Melting point		Not available.	
Boiling point	÷	>37.78°C (>100°F)	
Flash point	÷	Closed cup: 35°C (95°F)	
Auto-ignition temperature	÷	Not available.	
Decomposition temperature	1	Not available.	
Flammability	3	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Evaporation rate	1	Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Not available.	
Relative density	1	1.08	
Density(lbs / gal)	1	9.01	
		Media	Result
Solubility(ies)	÷	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Viscosity	1	Kinematic (40°C (104°F)):	>21 mm²/s (>21 cSt)
Volatility	;	66% (v/v), 52.67% (w/w)	
% Solid. (w/w)	÷	47.33	

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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.
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 metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
aluminium powder (stabilised)	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
,	LD50 Oral	Rat	>15900 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha (petroleum), heavy arom.	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
-	LD50 Oral	Rat	>5 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
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	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
-	LD50 Oral	Rat	5 g/kg	-
Zeolites	LD50 Oral	Rat	>5 g/kg	-
stearic acid	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	4600 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	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

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Section 11. Toxicological information

Product/ingredient name	Result		Species	Score	Exposure	Observation
xylene	Skin - Mod	lerate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary				4		+
Skin	: There are	e no data avail	able on the mixt	ure itself.		
Eyes	: There are	e no data avail	able on the mixt	ure itself.		
Respiratory	: There are	e no data avail	able on the mixt	ure itself.		
<u>Sensitization</u>						
Conclusion/Summary						
Skin	: There are	e no data avail	able on the mixt	ure itself.		
Respiratory	: There are	e no data avail	able on the mixt	ure itself.		
Mutagenicity						
Conclusion/Summary	: There are	e no data avail	able on the mixt	ure itself.		
Carcinogenicity						
Conclusion/Summary	: There are	e no data avail	able on the mixt	ure itself		
Classification						
Product/ingredient name	OSHA		TP			
xylene	-	3 -				
ethylbenzene	-	2B -				
Zeolites titanium dioxide	-	3 - 2B -				
toluene	_	3 -				
Carcinogen Classification	1 code:					
IARC: 1, 2A, 2B, 3	, 4 e a human carc	inogen; Reason	ably anticipated to I	be a human carc	inogen	
Reproductive toxicity						
Conclusion/Summary	: There are	no data availa	able on the mixtu	ıre itself.		
<u>Feratogenicity</u>						
Conclusion/Summary	: There are	no data availa	able on the mixtu	ire itself.		
Specific target organ toxicity						
Name			Category	Rout expo		get organs
xylene			Category 3	-	Res	piratory tract
Solvent naphtha (petroleum),	heavy arom		Category 3			ation cotic effects
Solvent naphtha (petroleum),		2	Category 3	_		cotic effects
1,2,4-trimethylbenzene	0		Category 3			piratory tract
-						ation
a luca ma				I	NI	

Category 3

toluene

Specific target organ toxicity (repeated exposure)

Narcotic effects

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Section 11. Toxicological information

Name		Route of exposure	Target organs
	Category 2 Category 2	-	hearing organs -

Target organs

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

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

Aspiration hazard

Name	Result
xylene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
3-ethyltoluene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute heal	th effects
Eye contact Inhalation Skin contact Ingestion <u>Over-exposure sign</u>	 Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Causes skin irritation. Defatting to the skin. No known significant effects or critical hazards.
Eye contact	: Adverse symptoms may include the following: pain or irritation 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: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immedia	te effects and also chronic effects from short and long term exposure

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Section 11. Toxicological information

		- <u>-</u>
Conclusion/Summary	:	There are no data available on the mixture itself. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). 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	:	There are no data available on the mixture itself.
effects Retential delayed offects		There are no data available on the mixture itself.
Potential delayed effects Long term exposure	1	
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects		There are no data available on the mixture itself.
Potential chronic health eff	ects	
General	:	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	:	No known significant effects or critical hazards.
Reproductive toxicity	:	Suspected of damaging fertility or the unborn child.
Numerical management of toxic		

Numerical measures of toxicity

Acute toxicity estimates

		United		Page: 13/18
-	Dermal (mg/kg)		Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)

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Section 11. Toxicological information

SIGMATHERM 500	10762.3	2352.1	N/A	29.0	3.6	
xylene	4300	1700	N/A	11	1.5	
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A	
ethylbenzene	3500	17800	N/A	17.8	1.5	
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5	
stearic acid	4600	N/A	N/A	N/A	N/A	
toluene	5580	8390	N/A	49	N/A	
stearic acid	4600					

Section 12. Ecological information

_		
	AVI	City
		CILY

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), heavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -
Zeolites titanium dioxide	Acute LC50 >680 mg/l Acute LC50 >100 mg/l Fresh water	Fish Daphnia - <i>Daphnia magna</i>	96 hours 48 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
xylene ethylbenzene toluene	- - -		- - -		Readily Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene Solvent naphtha (petroleum),	3.12 2.8 to 6.5	7.4 to 18.5 -	Low High
heavy arom. ethylbenzene 1,2,4-trimethylbenzene	3.6 3.63	79.43 120.23	Low Low
3-ethyltoluene stearic acid	3.98 8.23	-	Low High
toluene	2.73	8.32	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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Product name SIGMATHERM 500

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

	DOT	IMDG	IATA	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	Ш	III	Ш	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
Product RQ (Ibs)	443.94	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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Product name SIGMATHERM 500

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 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
xylene	≥20 - ≤26	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
Solvent naphtha (petroleum),	≥10 - ≤14	FLAMMABLE LIQUIDS - Category 4
heavy arom.		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
Solvent naphtha (petroleum),	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
light aromatic		SKIN IRRITATION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
ethylbenzene	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2
ethylbenzene	21.0 - 30.0	ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
1,2,4-trimethylbenzene	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
1	l	United States Page: 16/18

Version 1

Product name SIGMATHERM 500

Section 15. Regulatory information

	EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Respiratory tract irritation) - Category 3
	HNOC - Defatting irritant
≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
	ASPIRATION HAZARD - Category 1
	HNOC - Defatting irritant
≤1.0	CARCINOGENICITY - Category 2
<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
	≤1.0

<u>SARA 313</u>

	Chemical name	CAS number	Concentration
Supplier notification	: Aluminium powder (stabilized)	7429-90-5	10 - 30
	xylene	1330-20-7	10 - 30
	ethylbenzene	100-41-4	1 - 5
	1,2,4-trimethylbenzene	95-63-6	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

Health : 2 * Flammability : 3 Physical hazards : 1

(*) - 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.)

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Health:2Flammability:3Instability:1Date of previous issue:No previous validationOrganization that prepared:EHSthe SDS
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Product name SIGMATHERM 500

Section 16. Other information

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 = Intermediate Bulk Container
	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)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations
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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.