# **SAFETY DATA SHEET**



Date of issue/Date of revision 26 April 2024 Version 2.01

Section 1. Identification		
Product name	: SIGMASHIELD 420 BASE GREY	
Product code	: 00445063	
Other means of identification	: Not available.	
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.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
<u>Emergency telephone</u> <u>number</u>	: (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 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 33.3% (oral), 59.3% (dermal), 83.9% (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	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (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. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
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. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash 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 cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

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### Section 2. Hazards identification

Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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

Ingredient name	%	CAS number
vystalline silica, respirable powder (>10 microns)	≥20 - ≤50	14808-60-7
bis-[4-(2,3-epoxipropoxi)phenyl]propane	≥20 - ≤50	1675-54-3
Talc , not containing asbestiform fibres	≥10 - ≤13	14807-96-6
ethylbenzene	≥5.0 - ≤7.3	100-41-4
titanium dioxide	≥1.0 - ≤5.0	13463-67-7
xylene	≥1.0 - ≤4.2	1330-20-7
2-methylpropan-1-ol	≤1.8	78-83-1
nonylphenol	≥1.0 - ≤3.4	25154-52-3
Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-	≥1.0 - ≤5.0	55349-01-4

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	<ul> <li>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.</li> </ul>
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
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# Section 4. First aid measures

Most important symptoms/e	ffects, acute and delayed
Potential acute health effect	:ts
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	toms
Eye contact	: Adverse symptoms may include the following: pain
	watering
	redness
Inhalation	: Adverse symptoms may include the following:
	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:
ingection	stomach pains
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Indication of immediate med	lical attention and special treatment needed, if necessary
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	: 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 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	: 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.
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	ont	ainment 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.

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### Section 6. Accidental release measures

#### 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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**

Fystalline silica, respirable powder (>10 microns)       ACGIH TLV (United States, 1/2023). [Crystalline]         TWA: 0.025 mg/m³ 8 hours. Form:       Respirable         OSHA PEL Z3 (United States, 6/2016)       TWA: 10 mg/m³ (%SiO2+2) 8 hours         Respirable       TWA: 250 mppcf / (%SiO2+5) 8 hours         Respirable       TWA: 250 mppcf / (%SiO2+5) 8 hours         TWA: 250 mppcf / (%SiO2+5) 8 hours       Respirable         TWA: 250 mppcf / (%SiO2+5) 8 hours       Respirable         TWA: 50 µg/m³ 8 hours. Form: Respirable       TWA: 50 µg/m³ 8 hours. Form: Respirable         TWA: 20 g/m³ 8 hours. Form: Respirable       TWA: 20 g/m³ 8 hours. Form: Respirable         TWA: 2 mg/m³ 8 hours. Form: Respirable       TWA: 2 mg/m³ 8 hours. Form: Respirable         ethylbenzene       ACGIH TLV (United States, 1/2023).         titanium dioxide       TWA: 2 mg/m³ 8 hours.         titanium dioxide       SHA PEL (United States, 5/2018).         xylene       OSHA PEL (United States, 5/2018).         xylene       Shours. Form: respiration, finescale particles         xylene       SHA PEL (United States, 5/2018).         Xylene (o., m., p.isomers)]       TWA: 10 mg/m³ 8 hours. Form: respiration, finescale particles         Xylene and mixtures containing p-xy       Xylene and mixtures containing p-xy	Form: . Form: <b>ilica</b> ,
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<ul> <li>crystalline]</li> <li>TWA: 50 μg/m³ 8 hours. Form: Respidust</li> <li>None.</li> <li>ACGIH TLV (United States, 1/2023).</li> <li>TWA: 2 mg/m³ 8 hours. Form: Respinostates, 1/2023).</li> <li>TWA: 2 mg/m³ 8 hours. Form: Respinostates, 1/2023).</li> <li>TWA: 2 mg/m³ 8 hours.</li> <li>Cottoxicant.</li> <li>TWA: 20 ppm 8 hours.</li> <li>OSHA PEL (United States, 5/2018).</li> <li>TWA: 100 ppm 8 hours. Form: respination, finescale particles</li> <li>SCHA PEL (United States, 1/2023).</li> <li>TWA: 2.5 mg/m³ 8 hours. Form: respination, finescale particles</li> <li>SCHA PEL (United States, 5/2018).</li> <li>TWA: 2.5 mg/m³ 8 hours.</li> <li>TWA: 100 ppm 8 hours.</li> </ul>	
<ul> <li>TWA: 50 µg/m³ 8 hours. Form: Respidust</li> <li>bis-[4-(2,3-epoxipropoxi)phenyl]propane</li> <li>Talc , not containing asbestiform fibres</li> <li>ACGIH TLV (United States, 1/2023). TWA: 2 mg/m³ 8 hours. Form: Respi</li> <li>atCGIH TLV (United States, 1/2023). TWA: 2 mg/m³ 8 hours. Form: Respi</li> <li>atCGIH TLV (United States, 1/2023). TWA: 2 mg/m³ 8 hours.</li> <li>TWA: 20 ppm 8 hours.</li> <li>OSHA PEL (United States, 5/2018). TWA: 435 mg/m³ 8 hours.</li> <li>TWA: 100 ppm 8 hours.</li> <li>OSHA PEL (United States, 5/2018). TWA: 15 mg/m³ 8 hours. Form: Total</li> <li>ACGIH TLV (United States, 1/2023). TWA: 2.5 mg/m³ 8 hours. Form: resp fraction, finescale particles</li> <li>OSHA PEL (United States, 5/2018).</li> <li>TWA: 435 mg/m³ 8 hours.</li> </ul>	able
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ACGIH TLV (United States, 1/2023).	
	)-
Ototoxicant.	
TWA: 20 ppm 8 hours.	
2-methylpropan-1-ol ACGIH TLV (United States, 1/2023).	
TWA: 152 mg/m <sup>3</sup> 8 hours.	
TWA: 50 ppm 8 hours.	
OSHA PEL (United States, 5/2018).	
TWA: 300 mg/m <sup>3</sup> 8 hours.	
TWA: 100 ppm 8 hours.	
nonylphenol None.	
Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy- None.	
Key to abbreviations	
A = Acceptable Maximum Peak S = Potential skin absorption	

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Product name SIGMASHIELD 420 BASE GREY

# Section 8. Exposure controls/personal protection

C = Ceiling Limit F = Fume IPEL = Internal Permissible Exp OSHA = Occupational Safety and		SR= Respiratory sensitizationSS= Skin sensitizationSTEL= Short term Exposure limit valuesTD= Total dustTLV= Threshold Limit Value
R = Respirable Z = OSHA 29 CFR 1910.120	0 Subpart Z - Toxic and Hazardous Substances	TWA = Time Weighted Average
Consult local authorities for a		
		priate monitoring standards. Reference to national
procedures		or the determination of hazardous substances will
Appropriate engineering controls	other engineering controls to keep v recommended or statutory limits. T	Use process enclosures, local exhaust ventilation or vorker exposure to airborne contaminants below any he engineering controls also need to keep gas, any lower explosive limits. Use explosion-proof
Environmental exposure controls	: Emissions from ventilation or work they comply with the requirements of	process equipment should be checked to ensure of environmental protection legislation. In some gineering modifications to the process equipment ns to acceptable levels.
Individual protection measur	es	
Hygiene measures	eating, smoking and using the lavat Appropriate techniques should be u Contaminated work clothing should	oroughly after handling chemical products, before ory and at the end of the working period. sed to remove potentially contaminated clothing. not be allowed out of the workplace. Wash g. Ensure that eyewash stations and safety n location.
Eye/face protection	: Chemical splash goggles and face	shield.
Skin protection		
Hand protection	worn at all times when handling che necessary. Considering the parame during use that the gloves are still re noted that the time to breakthrough	es complying with an approved standard should be mical products if a risk assessment indicates this is eters specified by the glove manufacturer, check etaining their protective properties. It should be for any glove material may be different for different f mixtures, consisting of several substances, the be accurately estimated.
Gloves	: butyl rubber	
Body protection Other skin protection	<ul> <li>performed and the risks involved ar handling this product. When there static protective clothing. For the gi should include anti-static overalls, b</li> <li>Appropriate footwear and any additional content of the state of the state</li></ul>	onal skin protection measures should be selected
	specialist before handling this produ	and the risks involved and should be approved by a lict.

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### Section 8. Exposure controls/personal protection

Respiratory protection: Respirator selection must be based on known or anticipated exposure levels, the<br/>hazards of the product and the safe working limits of the selected respirator. If workers<br/>are exposed to concentrations above the exposure limit, they must use appropriate,<br/>certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying<br/>with an approved standard if a risk assessment indicates this is necessary.<br/>The respiratory protection shall be in accordance to 29 CFR 1910.134.

# Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	4	Liquid.
Color	4	Gray.
Odor	4	Characteristic.
Odor threshold	1	Not available.
рН	÷	Not applicable.
Melting point		Not available.
Boiling point	4	>37.78°C (>100°F)
Flash point	4	Closed cup: 28.5°C (83.3°F)
Auto-ignition temperature	4	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	4	Not available.
Relative density	4	1.36
Density(lbs / gal)	4	11.35
		Media Result
Solubility(ies)	1	cold water Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.
Viscosity	4	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Volatility	1	43% (v/v), 34.811% (w/w)
% Solid. (w/w)	:	65.189

# 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
bis-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 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	-
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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 mg/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
pís-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
-				mg	
Conclusion/Summary					
Skin	: There are no data availa	ble on the mixt	ure itself.		

Skill Even : There are no data available on the mixture itself.

Eyes Respiratory There are no data available on the mixture itself.There are no data available on the mixture itself.

: There are no data available on the mixture itself.

# Section 11. Toxicological information

#### **Sensitization**

<u>Sensitization</u>									
Product/ingredient name	Route of exposure		Species		Result				
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	skin		Sensitizing					
Conclusion/Summary									
Skin : There are no data available on the mixture itself.									
Respiratory	: There a	re no data	a available	on the mixture i	itself.				
<u>Mutagenicity</u>									
Conclusion/Summary	: There a	re no data	a available	on the mixture i	itself.				
Carcinogenicity									
Conclusion/Summary	: There a	re no data	a available	on the mixture i	itself.				
Classification									
Product/ingredient name	OSHA	IARC	NTP						
prystalline silica, respirable powder (>10 microns) bis-[4-(2,3-epoxipropoxi)	+	1	Knowr	n to be a human	carcinogen.				
phenyl]propane		Ũ							
ethylbenzene	-	2B	-	-					
titanium dioxide	-	2B	-						
xylene	-	3	-						
OSHA: + Not listed/not regu	4 e a human car	rcinogen; R	Reasonably a	inticipated to be a l	human carcinogen				
eproductive toxicity	<b>-</b> -								
· · · · · · · · · · · · · · · · · · ·	: There are	e no data	available	on the mixture it	iself.				
eratogenicity	<b>-</b>								
Conclusion/Summary specific target organ toxicity			available	on the mixture it	Iself.				
	(Single ex	<u>posurej</u>		O at a ma ma	Dents of	Tannat ann an			
Name				Category	Route of exposure	Target organs			
alc , not containing asbestifor			Category 3	-	Respiratory tract irritation				
ylene			Category 3	-	Respiratory tract irritation				
2-methylpropan-1-ol				Category 3	-	Respiratory tract irritation			
				Category 3		Narcotic effects			
pecific target organ toxicity	(repeated	exposur	<u>e)</u>			·			
lame				Category	Route of	Target organs			

Name		Route of exposure	Target organs		
ethylbenzene	Category 2	-	hearing organs		
		United State	s Page: 11/18		

#### Product name SIGMASHIELD 420 BASE GREY

# Section 11. Toxicological information

#### Target organs

: Contains material which causes damage to the following organs: liver, spleen, brain, bone marrow. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, bladder, cardiovascular system, upper respiratory tract,

immune system, skin, central nervous system (CNS), ears, eye, lens or cornea.

#### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact Inhalation Skin contact Ingestion <u>Over-exposure signs/sym</u>	<ul> <li>Causes serious eye damage.</li> <li>Harmful if inhaled.</li> <li>Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.</li> <li>No known significant effects or critical hazards.</li> </ul>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	<ul> <li>Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>
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
Delayed and immediate effe	ects and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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
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Product name SIGMASHIELD 420 BASE GREY

# Section 11. Toxicological information

		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 effects	:	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
<u>Long term exposure</u>		
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Potential chronic health eff	ect	<u>s</u>
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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	1	May cause 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 measures of toxic	titv	

#### 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)
SIGMASHIELD 420 BASE GREY	11574.5	11688.2	N/A	23.4	2.4
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
xylene	4300	1700	N/A	11	1.5
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
nonylphenol	580	2140	N/A	N/A	N/A

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
nonylphenol	Acute EC50 0.056 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic EC10 0.003 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 1 µg/l Fresh water	, Daphnia - <i>Daphnia magna</i>	21 days

#### 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
øs-[4-(2,3-epoxipropoxi) phenyl]propane	-		-		Not read	dily
ethylbenzene xylene	-		-		Readily Readily	

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>e</b> thylbenzene	3.6	79.43	Low
xylene	3.12	7.4 to 18.5	Low
2-methylpropan-1-ol	1	-	Low
nonylphenol	3.28	154.88	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

# 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

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Product name SIGMASHIELD 420 BASE GREY

### Section 13. Disposal considerations

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	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group		Ш	
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Kois-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.
Product RQ (lbs)	2720.6	Not applicable.	Not applicable.
RQ substances	(xylene, ethylbenzene)	Not applicable.	Not applicable.

#### Additional information

DOT	<ul> <li>Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.</li> </ul>				
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.				
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.				
<b>Special precautions for user : Transport within user's premises:</b> 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

Listed

Listed

One time notification

Version 2.01

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### Section 15. Regulatory information

#### **United States**

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

#### United States - TSCA 12(b) - Chemical export notification: nonylphenol United States - TSCA 5(a)2 - Proposed significant new use rules:

nonylphenol

p-nonylphenol

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
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	HNOC - Defatting irritant

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

Name	%	Classification
rystalline silica, respirable	≥20 - ≤50	CARCINOGENICITY - Category 1A
powder (>10 microns)		
bis-[4-(2,3-epoxipropoxi)phenyl]	≥20 - ≤50	SKIN IRRITATION - Category 2
propane		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
Talc , not containing asbestiform	≥10 - ≤13	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
fibres		(Respiratory tract irritation) - Category 3
ethylbenzene	≥5.0 - ≤7.3	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
titanium dioxide	≥1.0 - ≤5.0	CARCINOGENICITY - Category 2
xylene	≥1.0 - ≤4.2	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
	-1.0	ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol	≤1.8	FLAMMABLE LIQUIDS - Category 3
1	1	United States Page: 16/18

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### Section 15. Regulatory information

		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
nonylphenol	≥1.0 - ≤3.4	HNOC - Defatting irritant ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1
Octadecanamide, N, N'-1,6-hexanediylbis[12-hydroxy-	≥1.0 - ≤5.0	SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 COMBUSTIBLE DUSTS SKIN SENSITIZATION - Category 1B

#### **SARA 313**

	<u>Chemical name</u>	<u>CAS number</u>	Concentration
Supplier notification	: ethylbenzene	100-41-4	3 - 7
	xylene	1330-20-7	1 - 5
	nonylphenol	25154-52-3	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 - www.P65Warnings.ca.gov.

## Section 16. Other information

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

Health : 3 Flammability : 3 Physical hazards : 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.) Health : Instability : 0 3 Flammability : 3 Date of previous issue : 10/25/2023 Organization that prepared : EHS the SDS

Product name SIGMASHIELD 420 BASE GREY

# 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

#### 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.