SAFETY DATA SHEET



Conforms to Official Mexican Standard NOM-018-STPS-2015

Date of revision 3 March 2025

Version 11

Date of issue 3 March 2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	: SIGMASHIELD 420 BASE
Product code	: 00191023
Other means of identification	: Not applicable.
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
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

Classification of the substance or mixture	 AMMABLE 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 1 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 31 7% (oral) 56 1% (dermal) 81 8% (inhalation)
GHS label elements	31.7% (oral), 56.1% (dermal), 81.8% (inhalation)

Hazard pictograms



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SECTION 2: Hazards identification

Signal word		Danger
Hazard statements	:	 F226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H332 - Harmful if inhaled. H350 - May cause cancer. H361 - Suspected of damaging fertility or the unborn child. H372 - Causes damage to organs through prolonged or repeated exposure. (hearing organs)
Precautionary statements		
Prevention	:	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product.
		P264 - Wash thoroughly after handling.
Response	:	 P272 - Contaminated work clothing should not be allowed out of the workplace. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - 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	1	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	Causes digestive tract burns. Sanding and grinding dusts may be harmful if inhaled. 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. 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. Emits toxic fumes when heated.

See toxicological information (Section 11)

SECTION 3: Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: SIGMASHIELD 420 BASE
Other means of identification	: Not applicable.

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Product name SIGMASHIELD 420 BASE

SECTION 3: Composition/information on ingredients

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	≥5.0 - ≤10	14807-96-6
xylene	≥5.0 - ≤8.2	1330-20-7
titanium dioxide	≥5.0 - ≤10	13463-67-7
crystalline silica, respirable powder (<10 microns)	≥1.0 - ≤5.0	14808-60-7
4-nonylphenol, branched	≥1.0 - ≤3.4	84852-15-3
2-methylpropan-1-ol	≤1.6	78-83-1
ethylbenzene	≤1.6	100-41-4

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

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 damage.
Inhalation	: Harmful if inhaled.
Skin contact	: $ ot\!$
Ingestion	: Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

See toxicological information (Section 11)

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.
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.

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SECTION 5: Firefighting 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	: 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.
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			
: 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.			
: 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".			
: 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).			
ntainment and cleaning up			
: 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 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	g	
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

Ingredient name	Exposure limits
vystalline silica, respirable powder (>10 microns)	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 0.025 mg/m ³ . Form: Respirable fraction.
bis-[4-(2,3-epoxipropoxi)phenyl]propane Talc , not containing asbestiform fibres	None. ACGIH TLV (United States, 1/2024) TWA 8 hours: 2 mg/m ³ . Form: Respirable fraction.
xylene	NOM-010-STPS-2014 (Mexico, 4/2016) [Xileno, mezcla] STEL 15 minutes: 150 ppm.
titanium dioxide	TWA 8 hours: 100 ppm. NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 10 mg/m³.
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•	sure controls/perso	•	
crystalline silica, respirable p	owder (<10 microns)	NOM-010-STPS-2014 (M TWA 8 hours: 0.025 mg/ Respirable fraction.	
4-nonylphenol, branched 2-methylpropan-1-ol		None. NOM-010-STPS-2014 (M TWA 8 hours: 50 ppm.	exico, 4/2016)
ethylbenzene		NOM-010-STPS-2014 (M TWA 8 hours: 20 ppm.	exico, 4/2016)
	Key to abbreviations		
C = Ceiling Limit IPEL = Internal Permissible Exp		STEL = Short term exposure limit TLV = Threshold Limit Value TWA = Time Weighted Average	
Consult local authorities for	or acceptable exposure limits.		
Recommended monitoring procedures		to appropriate monitoring standards. is for methods for the determination ired.	
Appropriate engineering controls	ventilation or other engineer contaminants below any rec	ilation. Use process enclosures, loc ing controls to keep worker exposur ommended or statutory limits. The o r or dust concentrations below any l ventilation equipment.	e to airborne engineering controls
Environmental exposure controls	they comply with the require cases, fume scrubbers, filter	r work process equipment should be ments of environmental protection le s or engineering modifications to the to reduce emissions to acceptable	egislation. In some e process
Individual protection measu	ires		
Hygiene measures	: Wash hands, forearms and eating, smoking and using th Appropriate techniques show Contaminated work clothing	face thoroughly after handling chem ne lavatory and at the end of the wor uld be used to remove potentially con should not be allowed out of the wo e reusing. Ensure that eyewash sta- rkstation location.	king period. ntaminated clothing. rkplace. Wash
Eye/face protection	: Chemical splash goggles an	d face shield.	
Skin protection			
Hand protection	be worn at all times when ha this is necessary. Consideri check during use that the glo should be noted that the tim different for different glove n	bus gloves complying with an approv andling chemical products if a risk as ng the parameters specified by the g oves are still retaining their protective e to breakthrough for any glove mate nanufacturers. In the case of mixtur tection time of the gloves cannot be	sessment indicates glove manufacturer, e properties. It erial may be es, consisting of
Gloves	: butyl rubber		
Body protection	being performed and the risl before handling this product wear anti-static protective cl	ent for the body should be selected be ks involved and should be approved . When there is a risk of ignition from othing. For the greatest protection f include anti-static overalls, boots an	by a specialist n static electricity, rom static
Other skin protection		ny additional skin protection measure being performed and the risks involv ore handling this product.	
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SECTION 8: Exposure controls/personal protection

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

SECTION 9: Physical and chemical properties

<u>Appearance</u>			
Physical state	:	Liquid.	
Color	:	Various	
Odor	:	Characteristic.	
Odor threshold	:	Not available.	
Molecular weight	4	Not applicable.	
рН	÷	Not applicable.	
Melting point		Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	:	Closed cup: 33.1°C (91.6°F)	
Auto-ignition temperature	:	460°C (860°F)	
Decomposition temperature		Not available.	
Flammability	4	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Evaporation rate	:	Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Not available.	
Relative density	:	1.74	
Density(lbs / gal)	:	14.52	
Solubility(ies)		Media R	tesult
Solubility(les)	1	old water N	lot soluble
Solubility in water	:	Not available.	
Partition coefficient: n- octanol/water	;	Not applicable.	
Viscosity	:	Øynamic (room temperature Kinematic (room temperature Kinematic (40°C (104°F)): >2	e): Not available.
% Solid. (w/w)	3	88.878	

SECTION 10: Stability and reactivity

Reactivity	1	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: Stat	bility 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 metal oxide/oxides

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Result Species Dos		Exposure		
ois-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-		
phenyl]propane						
	LD50 Oral	Rat	15000 mg/kg	-		
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-		
-	LD50 Oral	Rat	4.3 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	-		
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-		
	LD50 Oral	Rat	1300 mg/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	-		
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	-		
Conclusion/Summary	: There are no data available on	the mixture i	tself.			

Conclusion/Summary Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
øís-[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	-
4-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	-	-
Conclusion/Summary	-		<u>+</u>		
Skin	: There are no data availa	able on the mix	kture itself.		
Eyes	: There are no data availa	able on the mix	kture itself.		
— • •					

Respiratory

: There are no data available on the mixture itself.

Sensitization

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SECTION 11: Toxicological information

U						
Product/ingredient name	Route of exposure	S	pecies	Result		
p ís-[4-(2,3-epoxipropoxi) phenyl]propane	skin	N	louse	Sensitizing		
Conclusion/Summary						
Skin	: There a	re no data	a available on the mixture itsel	f.		
Respiratory	: There are no data available on the mixture itself.					
Mutagenicity						
Conclusion/Summary	There are no data available on the mixture itself.					
Carcinogenicity	Carcinogenicity					
Conclusion/Summary	nary : There are no data available on the mixture itself.					
Classification						
Product/ingredient name	OSHA	IARC	NTP			
rystalline silica, respirable powder (>10 microns)	+	1	Known to be a human carci	nogen.		
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	3	-			
xylene	-	3	-			
titanium dioxide	-	2B	-			
crystalline silica, respirable powder (<10 microns)	+		Known to be a human carci	nogen.		
ethylbenzene	-	2B	-			

Carcinogen Classification code:

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

Reproductive toxicity

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Fystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs

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SECTION 11: Toxicological information

: Contains material which causes damage to the following organs: liver, spleen, brain, skin, bone marrow.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, cardiovascular system, upper respiratory tract, immune system, central nervous system (CNS), ears, eye, lens or cornea.

Aspiration hazard

		Name
N HAZARD - Category 1 N HAZARD - Category 2 N HAZARD - Category 1	n-1-ol	xylene 2-methyl ethylbenz

Information on the likely routes of exposure

Potential acute health effects

Eye contact	:	Causes serious eye damage.
Inhalation	:	Harmful if inhaled.
Skin contact	- :	$ ot\!$
Ingestion	- :	Corrosive to the digestive tract. Causes burns.
Over-exposure signs/symp	otoms	<u>5</u>
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: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate eff	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. 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
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SECTION 11: Toxicological information

		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.
Long 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.
Potential chronic health effe	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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	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 toxi	city	

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)
GMASHIELD 420 BASE	14539.6	6871.1	N/A	23.2	3.0
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

SECTION 12: Ecological information

Toxicity

Product name SIGMASHIELD 420 BASE

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
s-[4-(2,3-epoxipropoxi)	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
titanium dioxide	Acute LC50 >100 mg/I Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
4-nonylphenol, branched	Acute EC50 0.04 mg/l	Algae - Raphidocelis subcapitata	72 hours
	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
e thylbenzene	-	79 % - Readily - 10	days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane xylene ethylbenzene	-		-		Not readily Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	Low
4-nonylphenol, branched	5.4	251.19	Low
2-methylpropan-1-ol	1	-	Low
ethylbenzene	3.6	79.43	Low

Mobility in soil

Soil/Water partition : Not available. coefficient

Other adverse effects : No known significant effects or critical hazards.

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,
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Product name SIGMASHIELD 420 BASE

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

Mexico Classification	IMDG	ΙΑΤΑ
UN1263	UN1263	UN1263
PAINT	PAINT	PAINT
3	3	3
III	III	III
Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.
Not applicable.	Not applicable.	Not applicable.
Not applicable.	Not applicable.	Not applicable.
	UN1263 PAINT 3 III Yes. The environmentally hazardous substance mark is not required. Not applicable. Not applicable.	UN1263UN1263PAINTPAINT33IIIIIIYes. The environmentally hazardous substance mark is not required. Not applicable.Yes.Not applicable.Ves.Not applicable.Not applicable.

Additional information

Mexico	:	None identified.
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.

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

SECTION 15: Regulatory information

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

SECTION 15: Regulatory information

Not listed.

SECTION 16: Other information

Please refer to Section 2 of this document for GHS hazard classifications. The customer is responsible for determining the PPE code for this material.

Date of previous issue Organization that prepared the SDS	: 6/25/2021 : EHS	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International 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	5

Indicates information that has changed from previously issued version.

Notice to reader

The information, which is based on the current knowledge of the chemical substance or mixture and applies to appropriate safety precautions for the product, is deemed correct but is not exhaustive and will be used only as a guide.

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.