# **SAFETY DATA SHEET**



Date of issue 29 November 2022

Version 2.01

### Section 1. Product and company identification

Product name	1	;
Product code	:	(
Other means of identification	:	(
Product type	:	I

SIGMASHIELD 880 BASE GREY 5177 000001087821

: 00323078

Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

### **Identified uses**

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:	
Supplier	<ul> <li>PPG Industrial do Brasil – Tintas e Vernizes Ltda</li> <li>Via Anhanguera KM 106, Bairro Sao Judas Tadeu</li> <li>Sumare / SP, Brasil</li> <li>55 19 2103-6000 (Recepção e Portaria)</li> </ul>
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: 0800 707 1767 / 0800 707 7022 – Empresa Suatrans Cotec 0800 14 8110 – CEATOX - Centro de Assistência Toxicológica

## Section 2. Hazards identification

<b>Classification of the</b>	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	ACUTE TOXICITY (dermal) - Category 5
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	GERM CELL MUTAGENICITY - Category 2
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	AQUATIC HAZARD (ACUTE) - Category 3
	AQUATIC HAZARD (LONG-TERM) - Category 3
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, cardiovascular system, upper respiratory tract, immune system, skin, central nervous system (CNS), eye, lens or cornea.

Code 000001087821 Product name SIGMASHIE	Date of issue LD 880 BASE GREY 5177	29 November 2022	Version	2.01
Section 2. Hazards identification				
	Percentage of the mixture consistir toxicity: 32.9%	ng of ingredient(s) of unk	nown acute d	ermal
	Percentage of the mixture consistir aquatic environment: 58.8%	ng of ingredient(s) of unk	nown hazards	to the
GHS label elements				
Hazard pictograms		>		
Signal word	: Danger			
Hazard statements	<ul> <li>Flammable liquid and vapor. May be harmful in contact with skin Causes skin irritation. May cause an allergic skin reaction Causes serious eye irritation. May cause respiratory irritation. Suspected of causing genetic defen May cause cancer. Harmful to aquatic life with long las</li> </ul>	n. cts.		
Precautionary statements		ing encoder		
Prevention	: Obtain special instructions before u and eye or face protection. Keep a flames and other ignition sources. I ventilating or lighting equipment. U static discharges. Avoid release to thoroughly after handling.	away from heat, hot surfa No smoking. Use explos Jse non-sparking tools.	ces, sparks, c ion-proof elec Fake action to	open ctrical, prevent
Response	: IF exposed or concerned: Get med POISON CENTER or doctor if you wash it before reuse. IF ON SKIN: unwell. Wash with plenty of water. advice or attention. IF IN EYES: R Remove contact lenses, if present persists: Get medical advice or atte	feel unwell. Take off cor Call a POISON CENTE If skin irritation or rash o inse cautiously with wate and easy to do. Continue	ntaminated clo R or doctor if y occurs: Get m r for several r	othing and you feel edical ninutes.
Storage	: Store in a well-ventilated place. Kee	ep container tightly close	d. Keep cool.	
Disposal	: Dispose of contents and container and international regulations.	in accordance with all loo	cal, regional, r	national
Other hazards which do not result in classification	: Prolonged or repeated contact may	y dry skin and cause irrita	ition.	

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: 00323078

CAS number	: Not applicable.
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English (US)

Brazil

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## Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Epoxy resin (MW ≤ 700)	20 - <30	25068-38-6
barium sulfate	15 - <20	7727-43-7
Talc , not containing asbestiform fibres	12.5 - <15	14807-96-6
crystalline silica, respirable powder (>10 microns)	5 - <7	14808-60-7
xylene	5 - <7	1330-20-7
titanium dioxide	3 - <5	13463-67-7
Epoxy Resin (700 <mw<=1100)< td=""><td>3 - &lt;5</td><td>25036-25-3</td></mw<=1100)<>	3 - <5	25036-25-3
Phenol, methylstyrenated	3 - <5	68512-30-1
2-methylpropan-1-ol	2 - <3	78-83-1
2,3-epoxypropyl neodecanoate	2 - <3	26761-45-5
ethylbenzene	0.5 - <1	100-41-4
crystalline silica, respirable powder (<10 microns)	0.5 - <1	14808-60-7

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

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

SUB codes represent substances without registered CAS Numbers.

## Section 4. First aid measures

Description of necessary fi	r <mark>st a</mark> i	id 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.
Indication of immediate me	dica	attention and special treatment needed, if necessary
Notes to physician Specific treatments		Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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.
Potential acute health effec	<u>ts</u>	
Eye contact	1	Causes serious eye irritation.
Inhalation	1	May cause respiratory irritation.
Skin contact	:	May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	1	No known significant effects or critical hazards.

See toxicological information (Section 11)

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## 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. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds 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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	<ul> <li>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.</li> <li>If specialized clothing is required to deal with the spillage, take note of any</li> </ul>
Tor emergency responders	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). Water polluting material. May be harmful to the environment if released in large quantities.
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.

### 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.
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### Section 7. Handling and storage

Precautions for safe : handling	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. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### Control parameters

#### **Occupational exposure limits**

Ingredient name	Exposure limits
▶arium sulfate	ACGIH TLV (United States, 1/2022). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 1/2022). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
crystalline silica, respirable powder (>10 microns)	ACGIH TLV (United States, 1/2022). [Silica, crystalline] TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
xylene	Ministry of Labor and Employment (Brazil,
	English (US) Brazil 5/15

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	ure controls/personal	protection			
titanium dioxide		- 11/2001). [Xylenes ( TWA: 340 mg/m <sup>3</sup> 8 TWA: 78 ppm 8 ho ACGIH TLV (United	urs.		
2-methylpropan-1-ol		fraction, finescale pa	nticles nd Employment (Brazil		
ethylbenzene		TWA: 40 ppm 8 ho	urs. <mark>nd Employment (Braz</mark> i		
crystalline silica, respirable	powder (<10 microns)	TWA: 78 ppm 8 ho	urs.   <mark>States, 1/2022). [Silic</mark> a		
Recommended monitorin procedures	g : Reference should be made to a national guidance documents fo substances will also be required	r methods for the determina			
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering control also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.				
Environmental exposure controls	<ul> <li>Emissions from ventilation or we they comply with the requirement cases, fume scrubbers, filters of equipment will be necessary to be</li> </ul>	ork process equipment shounds of environmental protect r engineering modifications	ion legislation. In some to the process		
ndividual protection meas	ures				
Hygiene measures	: Wash hands, forearms and face before eating, smoking and usin Appropriate techniques should b Contaminated work clothing sho contaminated clothing before re showers are close to the workst	ng the lavatory and at the en be used to remove potential buld not be allowed out of th using. Ensure that eyewas	d of the working period. ly contaminated clothing e workplace. Wash		
Eye protection Skin protection	: Chemical splash goggles.				
Hand protection	: Chemical-resistant, impervious be worn at all times when handl this is necessary. Considering t check during use that the gloves should be noted that the time to different for different glove many several substances, the protecti	ing chemical products if a ri he parameters specified by s are still retaining their prot breakthrough for any glove ufacturers. In the case of m	sk assessment indicates the glove manufacturer, ective properties. It material may be nixtures, consisting of		
	estimated.				

English (US)

Brazil

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## Section 8. Exposure controls/personal protection

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Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>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.</li> </ul>
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	4	Gray.				
Odor	1	Aromatic.				
рН	1	Not applicable.				
Melting point	1	Not available.				
Boiling point	:	>37.78°C (>100°F)				
Flash point	:	Closed cup: 37°C (98.6°F)				
Evaporation rate	:	Not available.				
Flammability (solid, gas)	:	Not available.				
Lower and upper explosive (flammable) limits	1	Not available.				
Vapor pressure	:	Not available.				
Vapor density	:	Not available.				
Relative density	:	1.7				
Solubility(ies)		Media Result				
Solubility(les)	1	cold water Not soluble				
Partition coefficient: n- octanol/water	:	Not applicable.				
Auto-ignition temperature	:	Not available.				
Decomposition temperature	:	Not available.				
Viscosity	:	Kinematic (room temperature): >400 mm²/s (>400 cSt) Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)				
Viscosity	:	: 60 - 100 s (ISO 6mm)				

### 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.
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 sulfur oxides halogenated compounds metal oxide/oxides

### Section 11. Toxicological information

#### Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 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	-
Epoxy Resin (700 <mw &lt;=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 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	-
2,3-epoxypropyl	LD50 Dermal	Rat	3800 mg/kg	-
neodecanoate				
	LD50 Oral	Rat	9.6 g/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 itself.

### Irritation/Corrosion

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Product/ingredient name	Result			Species	Scor	e	Exposure	Observation
Epoxy resin (MW ≤ 700)	Eyes - Mild irritant Skin - Mild irritant			Rabbit Rabbit	-		-	-
xylene	Skin - Mod	lerate irri	tant	Rabbit	-		24 hours 500 mg	-
Conclusion/Summary	L			I	L		•	•
Skin	: There a	re no dat	a availa	ole on the mix	xture itse	lf.		
Eyes	: There a	re no dat	a availa	ole on the mix	xture itse	lf.		
Respiratory	: There a	re no dat	a availa	ole on the mix	xture itse	lf.		
<u>Sensitization</u>								
Product/ingredient name	Route of exposure	\$	Species			Resu	lt	
Epoxy resin (MW  ≤ 700)	skin	1	Mouse			Sens	itizing	
Conclusion/Summary								
Skin	: There a	re no dat	a availa	ole on the mix	xture itse	lf.		
Respiratory	: There a	re no dat	a availa	ole on the mix	xture itse	lf.		
<u>Mutagenicity</u>								
Not available.								
Conclusion/Summary	: There a	re no dat	a availa	ole on the mix	xture itse	lf.		
Carcinogenicity	·							
Not available.								
	. <b>T</b> here a			-   4 ''	.4	I.C.		
Conclusion/Summary	: There a	re no dat	a avalla	ole on the mix	xture itse	IT.		
<u>Classification</u>		1						
Product/ingredient name	OSHA	IARC	NTP					
crystalline silica, respirable powder (>10 microns)	-	1	Knov	wn to be a hu	man caro	cinoge	n.	
xylene	_	3	-					
titanium dioxide	-	2B	-					
ethylbenzene	-	2B	-					
crystalline silica, respirable powder (<10 microns)	-	1	Knov	wn to be a hu	man caro	cinoge	n.	
Carcinogen Classification of	code:	•						
IARC: 1, 2A, 2B, 3, 4 NTP: Known to be OSHA: + Not listed/not regula	a human carc	inogen; Ro	easonably	anticipated to	be a huma	n carcir	nogen	
Reproductive toxicity								
Not available.								
Conclusion/Summary	: There a	re no dat	a availa	ole on the mix	xture itse	lf.		

Teratogenicity Not available.

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

## Section 11. Toxicological information

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	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
ethylbenzene	Category 2	-	hearing organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-

#### 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, cardiovascular system, upper respiratory tract, immune system, skin, central nervous system (CNS), eye, lens or cornea.

#### Aspiration hazard

Name	Result
xylene	ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure <u>Potential acute health effects</u>	Not av	ailable.
Eye contact	Cause	s serious eye irritation.
		•
Inhalation	iviay ca	use respiratory irritation.
Skin contact		e harmful in contact with skin. Causes skin irritation. Defatting to the skin. Juse an allergic skin reaction.
Ingestion	No kno	wn significant effects or critical hazards.
Symptoms related to the phy Eye contact	Advers pain or	mical and toxicological characteristics e symptoms may include the following: irritation
	waterir rednes	s
Inhalation		e symptoms may include the following: tory tract irritation ng

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### Section 11. Toxicological information

Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
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. 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	
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 e	
Not available.	

General	: 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	: Suspected of causing genetic defects.
Reproductive toxicity	: No known significant effects or critical hazards.

### Numerical measures of toxicity

English (US)	Brazil

## Section 11. Toxicological information

### 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)
SIGMASHIELD 880 BASE GREY 5177	7217.5	2850.3	N/A	40.2	5.5
Epoxy resin (MW ≤ 700)	2500	2500	N/A	N/A	N/A
barium sulfate	N/A	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<>	2500	2500	N/A	N/A	N/A
Phenol, methylstyrenated	2500	2500	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
2,3-epoxypropyl neodecanoate	9600	3800	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

#### **Other information**

: Not available.

## Section 12. Ecological information

### **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
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
2,3-epoxypropyl neodecanoate	Acute EC50 3.5 mg/l	Algae	96 hours
	Acute EC50 4.8 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.6 mg/l	Fish - Oncorhynchus mykiss	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
•	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Epoxy resin (MW ≤ 700) ethylbenzene	OECD 301F -	5 % - 28 da 79 % - Rea	ays Idily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
Epoxy resin (MW ≤ 700) xylene 2,3-epoxypropyl neodecanoate atbulbanzana	- - -		-		Not rea Readily Not rea	y adily
ethylbenzene	-		-		Readily	ý

**Bioaccumulative potential** 

Section 12. Ecolo	gical inform	ation	
Product/ingredient name	LogPow	BCF	Potential
Epoxy resin (MW ≤ 700)	3	31	low
xylene	3.12	7.4 to 18.5	low
Phenol, methylstyrenated	3.627	-	low
2-methylpropan-1-ol	1	-	low
2,3-epoxypropyl	4.4	-	high
neodecanoate			
ethylbenzene	3.6	79.43	low

Soil/water partition	: Not available.
coefficient (Koc)	

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, waterways, drains and sewers.

## Section 14. Transport information

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

### Additional information

### Section 14. Transport information

Brazil	: None identified.
Risk number	: 30
IMDG	<ul> <li>This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.</li> </ul>
ΙΑΤΑ	: 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

### Section 15. Regulatory information

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

### Section 16. Other information

#### **History** Date of previous issue : 11/11/2022 2.01 Version **Prepared by** : EHS Key to abbreviations : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations **References** : ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency

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.

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## Section 16. Other information

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