# **SAFETY DATA SHEET**



#### Date of issue 10 February 2022

Version 6

### Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMASHIELD 460 BASE GREY
- : 00155025
- : Not available.
  - : 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

alation) - Category 4
ategory 2
GE - Category 1
- Category 1
Category 1A
CTION - Category 2
CUTE) - Category 2
ONG-TERM) - Category 2
h causes damage to the following organs: liver, spleen, brain,
h may cause damage to the following organs: kidneys, lungs, adder, cardiovascular system, upper respiratory tract, central nervous system (CNS), ears, eye, lens or cornea.

Code 00155025 Product name SIGMASHIE	I D 460 BASE GREV	Date of issue	10 February 2022	Version	6
SIGMASHIELD 460 BASE GREY Section 2. Hazards identification					
Section 2. mazaros			ling of ingradient(c) of wol		holotion
	toxicity: 84%	of the mixture consist	ting of ingredient(s) of unk	nown acute in	nalalion
		of the mixture consist onment: 60.5%	ting of ingredient(s) of unk	nown hazards	to the
GHS label elements					
Hazard pictograms				32	
Signal word	: Danger				
Hazard statements	Causes skin May cause a Causes seric Harmful if inh May cause c Suspected o	n allergic skin reactic ous eye damage. naled.	the unborn child.		
Precautionary statements					
Prevention	and eye or fa flames and o ventilating or	ice protection. Keep ther ignition sources lighting equipment. rges. Avoid release t	use. Wear protective gld away from heat, hot surfa . No smoking. Use explo- Use non-sparking tools. to the environment. Avoid	aces, sparks, c sion-proof elec Take action to	pen trical, prevent
Response	INHALED: C contaminated water. If skir Rinse caution	all a POISON CENTI d clothing and wash i n irritation or rash occ usly with water for se	oncerned: Get medical ad ER or doctor if you feel un t before reuse. IF ON SK curs: Get medical advice o veral minutes. Remove co Immediately call a POIS	well. Take off IN: Wash with or attention. IF ontact lenses,	plenty of IN EYES: if present
Storage	: Store in a we	ell-ventilated place. K	eep cool.		
Disposal		ontents and containe onal regulations.	r in accordance with all lo	cal, regional, n	ational
Other hazards which do not result in classification	: <b>P</b> rolonged or	repeated contact ma	ay dry skin and cause irrita	ation.	

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers		
CAS number	;	Not applicable.

### Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
rystalline silica, respirable powder (>10 microns)	20 - <30	14808-60-7
bis-[4-(2,3-epoxipropoxi)phenyl]propane	20 - <30	1675-54-3
Talc , not containing asbestiform fibres	10 - <12.5	14807-96-6
ethylbenzene	5 - <7	100-41-4
xylene	3 - <5	1330-20-7
titanium dioxide	2 - <3	13463-67-7
glass, oxide, chemicals	2 - <3	65997-17-3
nonylphenol	1 - <2	25154-52-3
2-methylpropan-1-ol	1 - <2	78-83-1
Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-	1 - <2	55349-01-4

Date of issue

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 neces	sary 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	<ul> <li>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.</li> </ul>
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 medi	ca	l attention and special treatment needed, if necessary
Notes to physician Specific treatments		K 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. 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 effects		
Eye contact	1	Causes serious eye damage.
Inhalation	1	Harmful if inhaled.
Skin contact	1	$ ot\!$
la se este se		

**Ingestion** : No known significant effects or critical hazards.

### See toxicological information (Section 11)

SIGMASHIELD 460 BASE GREY

Date of issue

6

## 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	: Fammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	<ul> <li>Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides</li> </ul>
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	: 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### 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. 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. 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		
ørystalline silica, respirable powder (>10 microns)	ACGIH TLV (United States, 1/2021). TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:		
Talc , not containing asbestiform fibres	Respirable fraction ACGIH TLV (United States, 1/2021).		
ethylbenzene	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable Ministry of Labor and Employment (Brazi		
	11/2001).		
	TWA: 340 mg/m <sup>3</sup> 8 hours. TWA: 78 ppm 8 hours.		
	English (US) South America 5/1		

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xylene		Ministry of Labor and Employment (Brazil, 11/2001).
		TWA: 340 mg/m <sup>3</sup> 8 hours.
		TWA: 78 ppm 8 hours.
titanium dioxide		ACGIH TLV (United States, 1/2021).
		TWA: 10 mg/m <sup>3</sup> 8 hours.
glass, oxide, chemicals		ACGIH TLV (United States).
glass, oxide, chemicals		TWA: 1 f/cc Form: Continuous filament
		glass fibers
		TWA: 5 mg/m <sup>3</sup> , (Inhalable) Form:
		Continuous filament glass fibers
		TWA: 3 mg/m <sup>3</sup> Form: Respirable
		TWA: 10 mg/m <sup>3</sup> Form: Total dust
		ACGIH TLV (United States, 1/2021).
		TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
		fraction
		TWA: 1 f/cc 8 hours. Form: Respirable
		fibers: length greater than 5 uM; aspect ratio
		equal to or greater than 3:1 as determined
		by the membrane filter method at 400-450X
		magnification (4-mm objective) phase
		contrast illumination.
2-methylpropan-1-ol		Ministry of Labor and Employment (Brazil,
		11/2001).
		TWA: 115 mg/m <sup>3</sup> 8 hours.
		TWA: 40 ppm 8 hours.
Recommended monitoring procedures	atmosphere or biological monitoring of the ventilation or other control me protective equipment. Reference sh	vith exposure limits, personal, workplace may be required to determine the effectiveness asures and/or the necessity to use respiratory nould be made to appropriate monitoring uidance documents for methods for the ces will also be required.
Appropriate engineering controls	ventilation or other engineering cont contaminants below any recommend also need to keep gas, vapor or dus	Use process enclosures, local exhaust rols to keep worker exposure to airborne ded or statutory limits. The engineering controls t concentrations below any lower explosive
	limits. Use explosion-proof ventilation	• •
Environmental exposure		process equipment should be checked to ensure
controls		f environmental protection legislation. In some
	equipment will be necessary to redu	gineering modifications to the process
	equipment will be necessary to redu	
ndividual protection measu	res	
Hygiene measures		roughly after handling chemical products,
		e lavatory 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
	showers are close to the workstation	
Eye protection	: Chemical splash goggles and face s	snieia.
		English (US) South America 6/15
		English (US) South America 6/15

## Section 8. Exposure controls/personal protection

	· · · · · · · · · · · · · · · · · · ·
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Various
Odor	: Aromatic.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Ølosed cup: 29°C (84.2°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.35
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

SIGMASHIELD 460 BASE GREY

Date of issue

6

## 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 materia carbon oxides nitrogen oxides metal oxide/oxides

## Section 11. Toxicological information

### Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
bís-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	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	-
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	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 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	-

Conclusion/Summary

: There are no data available on the mixture itself.

### Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
Eyes - Mild irritant	Rabbit	-	24 hours	-
Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
Skin - Edema	Rabbit	0.5	4 hours	-
Skin - Mild irritant	Rabbit	-	4 hours	-
Skin - Moderate irritant	Rabbit	-	24 hours 500	-
			mg	
	Eyes - Redness of the conjunctivae Eyes - Mild irritant Skin - Erythema/Eschar Skin - Edema Skin - Mild irritant	Eyes - Redness of the conjunctivaeRabbitEyes - Mild irritantRabbitSkin - Erythema/EscharRabbitSkin - EdemaRabbitSkin - Mild irritantRabbit	Eyes - Redness of the conjunctivaeRabbit0.4Eyes - Mild irritantRabbit-Skin - Erythema/EscharRabbit0.8Skin - EdemaRabbit0.5Skin - Mild irritantRabbit-	Eyes - Redness of the conjunctivaeRabbit0.424 hoursEyes - Mild irritantRabbit-24 hoursSkin - Erythema/EscharRabbit0.84 hoursSkin - EdemaRabbit0.54 hoursSkin - Mild irritantRabbit-4 hoursSkin - Mild irritantRabbit-24 hours

#### Conclusion/Summary Skin

: There are no data available on the mixture itself.

Code 00155025 Product name SIGMASHIE	LD 460 BASE		Date of issue	10 February 2022	Version	6
Section 11. Toxico	ologica	l infor	rmation			
Eyes Respiratory Sensitization			a available on the a available on the			
Product/ingredient name	Route of exposure	S	pecies	Result		
øis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	N	louse	Sensitizing		
<u>Conclusion/Summary</u> Skin Respiratory <u>Autagenicity</u> Not available.			a available on the a available on the			
Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary Classification			a available on the a available on the			
Product/ingredient name	OSHA	IARC	NTP			
vystalline silica, respirable powder (>10 microns) bis-[4-(2,3-epoxipropoxi)	-	1	Known to be a	a human carcinogen.		
phenyl]propane ethylbenzene xylene titanium dioxide glass, oxide, chemicals		2B 3 2B 3				
Carcinogen Classification of IARC: 1, 2A, 2B, 3, 4 NTP: Known to be OSHA: + Not listed/not regula	a human carc	inogen; Re	asonably anticipate	d to be a human carcinogen		
<mark>Reproductive toxicity</mark> Not available.						
Conclusion/Summary <u>Feratogenicity</u>	: There a	re no data	a available on the	e mixture itself.		

Not available.

**Conclusion/Summary** : There are no data available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>

## Section 11. Toxicological information

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

Date of issue

#### Specific target organ toxicity (repeated exposure)

Name		Category	Route of exposure	Target organs
<b>e</b> thylbenzene		Category 2	-	hearing organs
Target organs	: Contains material which ca	auses damage f	to the following or	ans liver spleen brain

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: 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
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2

Information on the likely routes of exposure Potential acute health effects	Not available.	
Eye contact	Causes serious eye damage.	
Inhalation	Harmful if inhaled.	
Skin contact	Zauses skin irritation. Defatting to the skin. May cause an allergic skin reaction.	
Ingestion	No known significant effects or critical hazards.	
Symptoms related to the phy Eye contact Inhalation	al, chemical and toxicological characteristics Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations	

Date of issue

6

## Section 11. Toxicological information

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 effects and also chronic effects from short and long term exposure

Conclusion/Summary	which can cause lung cancer o on and level of exposure to dus ations. For many PPG product g formulation. In this case, the ingful potential for human expo ct is applied with a brush or roll applications may be harmful du equire the use of appropriate pe- eering controls (see Section 8), ntrations in excess of the state se health effects such as mucc dverse effects on the kidneys, I gns include headache, dizzines n extreme cases, loss of consc effects by absorption through ure to organic solvent vapors in greater hearing loss than expe eyes, the liquid may cause irrit nausea, diarrhea and vomiting ed and immediate effects and a	ixture itself. This product contains crystalline r silicosis. The risk of cancer depends on the st from sanding surfaces or mist from spray ts, TiO2 is utilized as a raw material in a liquid e TiO2 particles are bound in a matrix with no sure to unbound particles of TiO2 when the ler. Sanding the coating surface or mist from epending on the duration and level of exposure ersonal protective equipment and/or . Exposure to component solvent vapor d occupational exposure limit may result in bus membrane and respiratory system irritation liver and central nervous system. Symptoms ss, fatigue, muscular weakness, drowsiness iousness. Solvents may cause some of the the skin. There is some evidence that repeated n combination with constant loud noise can ected from exposure to noise alone. If splashed ation and reversible damage. Ingestion may g. This takes into account, where known, also chronic effects of components from short- , inhalation and dermal routes of exposure and
Short term exposure		
Potential immediate effects	are no data available on the m	nixture itself.
Potential delayed effects	are no data available on the m	nixture itself.
Long term exposure		
Potential immediate effects	are no data available on the m	nixture itself.
Potential delayed effects	are no data available on the m	nixture itself.
Potential chronic health eff		
Not available.		

Not available.

## Section 11. Toxicological information

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	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.

### Numerical measures of toxicity

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMASHIELD 460 BASE GREY	10797.9	11504.3	N/A	22.4	2.3
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
nonylphenol	580	2140	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A

### **Other information**

: Not available.

## Section 12. Ecological information

#### **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
s-[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
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 - Daphnia magna	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours

### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	ıdily - 10 days	-		-
Product/ingredient name	Aquatic half-life	•	Photolysis		Biodeg	radability
ofs-[4-(2,3-epoxipropoxi) phenyl]propane	-		-		Not rea	adily
ethylbenzene xylene	-		-		Readily	

English (US) South America

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
ethylbenzene	3.6	79.43	low
xylene	3.12	7.4 to 18.5	low
nonylphenol	3.28	154.88	low
2-methylpropan-1-ol	1	-	low

### Mobility in soil

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

	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	III	III		III
Environmental hazards Marine pollutant	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. (bis-[4-	Yes. The environmentally hazardous substance mark is not required. Not applicable.
substances			(2,3-epoxipropoxi) phenyl]propane, nonylphenol)	

English (US) South America

6

### Section 14. Transport information

#### **Additional information**

UN	: None identified.
Brazil	: None identified.
<b>Risk number</b>	: 30
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precaution	<b>ons 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

### 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	: 6/25/2021
Version	: 6 EHS
Key to abbreviations	<ul> <li>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</li> </ul>
References	: ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version. Disclaimer

### Section 16. Other information

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.