## **SAFETY DATA SHEET**



Date of issue 17 March 2022

Version 1

### Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMACOVER 456 BASE GREY 5177052164
- : 00153983CO
- : 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 Industries Colombia Ltda Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)</li> </ul>
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: Colombia: 01 8000 916012 (CISPROQUIM) + 571 288 6012 (CISPROQUIM) Ecuador: 1800-59-3005 (CISPROQUIM) Peru: 080-050-847 (CISPROQUIM)

## Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3         ACUTE TOXICITY (dermal) - Category 4         ACUTE TOXICITY (inhalation) - Category 4         SKIN IRRITATION - Category 2         EYE IRRITATION - Category 2A         SKIN SENSITIZATION - Category 1         CARCINOGENICITY - Category 1A         SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3         SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1     </li> </ul>

English (US)	Colombia	

Section 2. Hazards identification		
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, gastrointestinal tract, cardiovascular system, upper respiratory tract, immune system, skin, central nervous system (CNS), ears, eye, lens or cornea.	
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 65% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 72.6%	
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 75.2%	
GHS label elements		
Hazard pictograms		
Signal word	: Danger	
Hazard statements	<ul> <li>Flammable liquid and vapor. Harmful in contact with skin or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause cancer. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.</li> </ul>	
Precautionary statements	1 5 5	
Prevention	: Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.	
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.	
Storage	: Store in a well-ventilated place. Keep container tightly closed. Keep cool.	
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.	

### Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

: Mixture

: Not available.

#### **CAS number/other identifiers**

CAS	num	oer

: Not applicable.

Ingredient name	%	CAS number
Epoxy Resin	20 - <30	SUB110652
crystalline silica, respirable powder (>10 microns)	15 - <20	14808-60-7
crystalline silica, respirable powder (<10 microns)	15 - <20	14808-60-7
xylene	7 - <10	1330-20-7
Talc , not containing asbestiform fibres	7 - <10	14807-96-6
Epoxy resin (MW ≤ 700)	5 - <7	25068-38-6
m-xylene	5 - <7	108-38-3
barium sulfate	2 - <3	7727-43-7
titanium dioxide	2 - <3	13463-67-7
ethylbenzene	2 - <3	100-41-4
o-xylene	2 - <3	95-47-6
p-xylene	2 - <3	106-42-3
aluminium oxide	1 - <2	1344-28-1
2-methylpropan-1-ol	1 - <2	78-83-1
copper oxide	0 - <0.1	1317-38-0

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 first aid measures			
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.		
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.		
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.		
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.		
Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician Specific treatments	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large</li> <li>quantities have been ingested or inhaled.</li> <li>No specific treatment.</li> </ul>		

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Section 4. First a	l measures
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 effe	
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. 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	<ul> <li>Decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders		

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### Section 6. Accidental release measures

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 c	on	tainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

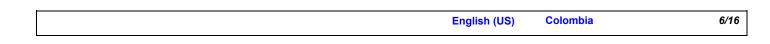
Precautions for safe handling	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not 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	-	Do not store above the following temperature: 50°C (122°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
crystalline silica, respirable powder (>10 microns)	ACGIH TLV (United States, 1/2021).
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:
	Respirable fraction
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 1/2021).
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:
	Respirable
xylene	ACGIH TLV (United States, 1/2021).
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 1/2021).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
m-xylene	ACGIH TLV (United States, 1/2021).
	TWA: 100 ppm 8 hours.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
barium sulfate	ACGIH TLV (United States, 1/2021).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction
titanium dioxide	ACGIH TLV (United States, 1/2021).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
ethylbenzene	ACGIH TLV (United States, 1/2021).
,	TWA: 20 ppm 8 hours.
o-xylene	ACGIH TLV (United States, 1/2021).
	TWA: 100 ppm 8 hours.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
p-xylene	ACGIH TLV (United States, 1/2021).
	TWA: 100 ppm 8 hours.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
aluminium oxide	ACGIH TLV (United States).
	TWA: 3 mg/m <sup>3</sup> Form: Respirable
	ACGIH TLV (United States, 1/2021).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	ACGIH TLV (United States, 1/2007).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2021).
<b>71</b> - F	TWA: $152 \text{ mg/m}^3 8 \text{ hours.}$
	TWA: 50 ppm 8 hours.



## Section 8. Exposure controls/personal protection

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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 controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	<u>'es</u>	
Hygiene measures		Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection	4	Chemical splash goggles.
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	4	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	: Not available.
Odor	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 27.5°C (81.5°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	: 1.38
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)
Viscosity	: < 30 s (ISO 6mm)

## Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients	3.
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 mater carbon oxides sulfur oxides halogenated compounds metal oxide/oxides	rials:

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## Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Epoxy resin (MW  ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
m-xylene	LC50 Inhalation Vapor	Rat	27124 mg/m <sup>3</sup>	4 hours
-	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
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	-
o-xylene	LC50 Inhalation Vapor	Rat	27124 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
p-xylene	LC50 Inhalation Vapor	Rat	27124 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
aluminium oxide	LC50 Inhalation Dusts and mists	Rat	7.6 mg/l	4 hours
	LD50 Oral	Rat	>15900 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	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
Conclusion/Summary	: There are no data available on	the mixture its	elf.	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
-				mg	
Epoxy resin (MW ≤ 700)	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	-	-
m-xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Conclusion/Summary					·
Skin	: There are no data available on the mixture itself.				
Eves	: There are no data available on the mixture itself				

Respiratory <u>Sensitization</u>		ata available on the mixture itse	
Product/ingredient name	Route of exposure	Species	Result
Epoxy resin (MW ≤ 700)	skin	Mouse	Sensitizing

**Conclusion/Summary** 

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#### **Conclusion/Summary**

**Carcinogenicity** 

Not available.

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

Product/ingredient name	OSHA	IARC	NTP
crystalline silica, respirable powder (>10 microns)	-	1	Known to be a human carcinogen.
crystalline silica, respirable powder (<10 microns)	-	1	Known to be a human carcinogen.
xylene	-	3	-
m-xylene	-	3	-
titanium dioxide	-	2B	-
ethylbenzene	-	2B	-
o-xylene	-	3	-
p-xylene	-	3	-

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**

Not available.

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

#### **Teratogenicity**

Not available.

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

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

Name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
m-xylene	Category 3	-	Respiratory tract irritation
o-xylene	Category 3	-	Respiratory tract irritation
p-xylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
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## Section 11. Toxicological information

Category 3 Narcotic effects

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

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

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

#### Aspiration hazard

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

Information on the likely routes of exposure	:	Not available.
Potential acute health effect	s	
Eye contact	:	Causes serious eye irritation.
Inhalation	1	Harmful if inhaled. May cause respiratory irritation.
Skin contact		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.
		al, chemical and toxicological characteristics
Eye contact	,	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation		Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	i	Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	:	No specific data.

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Section 11. Toxic	ological inform	ation			
Delayed and immediate effect	ts and also chronic effe	cts from short	and long term expo	<u>sure</u>	
Conclusion/Summary	: There are no data aver silica which can caus duration and level of applications. For man coating formulation. meaningful potential to product is applied wit spray applications man and require the use of engineering controls of concentrations in exc adverse health effects and adverse effects of and signs include heat and, in extreme cases above effects by absor- exposure to organic so cause greater hearing in the eyes, the liquid cause nausea, diarrh delayed and immedia term and long-term effects.	e lung cancer or exposure to dust ny PPG products for human expose h a brush or rolle ay be harmful de f appropriate pe (see Section 8). ess of the stated s such as mucou on the kidneys, li adache, dizzines s, loss of conscie orption through t solvent vapors in g loss than expe may cause irrita ea and vomiting te effects and al	silicosis. The risk of t from sanding surfaces s, TiO2 is utilized as a TiO2 particles are be sure to unbound parti er. Sanding the coati pending on the durat rsonal protective equ Exposure to compore d occupational expose us membrane and resever and central nervers s, fatigue, muscular wo ousness. Solvents me he skin. There is sore combination with co cted from exposure to ation and reversible d . This takes into access	cancer depend es or mist from a raw material i bund in a matrix cles of TiO2 wh ng surface or m ion and level of ipment and/or nent solvent vap ure limit may re spiratory system. Sy weakness, drow hay cause some ne evidence that not noise alone. amage. Ingest bunt, where know components fro	ds on the a spray n a liquid a with no ben the hist from f exposure por esult in n irritation mptoms vsiness e of the at repeated se can If splashed ion may pown, om short-
Short term exposure Potential immediate	: There are no data ava	ailable on the mi	xture itself.		
effects					
Potential delayed effects	: There are no data av	ailable on the mi	xture itself.		
Long term exposure Potential immediate effects	: There are no data ava	ailable on the mi	xture itself.		
Potential delayed effects	: There are no data av	ailable on the mi	xture itself.		
Potential chronic health eff					
Not available.					
General	: Causes damage to or repeated contact can Once sensitized, a se to very low levels.	defat the skin a	nd lead to irritation, c	racking and/or	dermatitis.
Carcinogenicity	: May cause cancer. F	Risk of cancer de	epends on duration a	nd level of expo	sure.
Mutagenicity	: No known significant	effects or critica	l hazards.		
Reproductive toxicity	: No known significant	effects or critica	l hazards.		
Numerical measures of toxic	ity				

Acute toxicity estimates

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## Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMACOVER 456 BASE GREY 5177052164	5139.1	1892.4	N/A	14.6	3.7
xylene	4300	1700	N/A	11	1.5
Epoxy resin (MW $\leq$ 700)	2500	2500	N/A	N/A	N/A
m-xylene	3523	1100	N/A	11	N/A
barium sulfate	N/A	2500	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
o-xylene	3523	1100	N/A	11	N/A
p-xylene	3523	1100	N/A	11	N/A
aluminium oxide	N/A	N/A	N/A	N/A	7.6
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
copper oxide	2500	N/A	N/A	N/A	N/A

#### 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
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
aluminium oxide	Acute LC50 >100 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Epoxy resin (MW ≤ 700) m-xylene ethylbenzene o-xylene	OECD 301F OECD 301F - OECD 301F	5 % - 28 days       -         98 % - Readily - 28 days       -         79 % - Readily - 10 days       -         94 % - Readily - 28 days       -		- - -		- - -
p-xylene	OECD 301F		dily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
xylene Epoxy resin (MW ≤ 700) m-xylene ethylbenzene o-xylene p-xylene	- - - -		- - - - -		Readily Not rea Readily Readily Readily Readily	idily , ,

#### **Bioaccumulative potential**

E	Inglish (US)	Colombia	13/16
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Section 12. Ecolo	gical inforn	nation			
Product/ingredient name	LogPow	BCF		Potential	
xylene Epoxy resin (MW ≤ 700) m-xylene ethylbenzene	3.12 3 3.2 3.6	7.4 to 18 31 14.79 79.43	3.5	low low low low	
o-xylene	3.12	14.13		low	

14.79

low

low

coefficient (Koc)	
Other adverse effects	: No known significant effects or critical hazards.

3.15

: Not available.

1

p-xylene

2-methylpropan-1-ol

Soil/water partition

**Mobility in soil** 

## Section 13. Disposal considerations

## Section 14. Transport information

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

#### Additional information

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### Section 14. Transport information

UN	: None identified.
Brazil	: None identified.
Risk number	: 30
IMDG	: None identified.
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 : No previous validation Version : 1 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 : ABNT NBR 14725-4: 2014 References ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version. <u>Disclaimer</u>

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## 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.