SAFETY DATA SHEET



Date of issue 16 February 2024

Version 1.02

Section 1. Product and company identification

Product name	: SIGMACOVER 280 BASE
Product code	: 000001011236
Other means of identification	: 00149205; 00169795; 0017
Product type	: Liquid.

1011236 0205; 00169795; 00178218; 00184148; 00185280; 00329292

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	 PPG Industries Colombia Ltda Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)
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	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 2
	AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2

English (US	S) Colombia	

Code 000001011236 Product name SIGMACOV	'ER	Date of issue 280 BASE	16 February 2024		1.02
Section 2. Hazard	s i	dentification			
Target organs	:	Contains material which causes skin, bone marrow, central new Contains material which may ca lungs, the nervous system, the upper respiratory tract, immune	vous system (CNS), eye, len ause damage to the followin reproductive system, heart,	s or cornea. g organs: bloo	d, kidney
		Percentage of the mixture constoxicity: 38.3% Percentage of the mixture constoxicity: 57.1%			
		Percentage of the mixture cons aquatic environment: 57.2%	sisting of ingredient(s) of unk	nown hazards	to the
GHS label elements					
Hazard pictograms	:		!		
Signal word	:	Danger	• •		
Hazard statements	:	Flammable liquid and vapor. May be harmful in contact with Causes skin irritation. May cause an allergic skin read Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation May cause cancer. Suspected of damaging fertility May cause damage to organs to Toxic to aquatic life with long lateral	ction. or the unborn child. .hrough prolonged or repeate	ed exposure.	
Precautionary statements					
Prevention	:	Obtain special instructions before and eye or face protection. Kee flames and other ignition source ventilating or lighting equipment static discharges. Avoid release thoroughly after handling.	ep away from heat, hot surfa es. No smoking. Use explo t. Use non-sparking tools.	aces, sparks, c sion-proof elec Take action to	pen trical, prevent
Response	:	Collect spillage. IF exposed or INHALED: Call a POISON CEN contaminated clothing and was CENTER or doctor if you feel u rash occurs: Get medical advic water for several minutes. Rem Continue rinsing. If eye irritatio	NTER or doctor if you feel un h it before reuse. IF ON SK nwell. Wash with plenty of v e or attention. IF IN EYES: nove contact lenses, if prese	well. Take off IN: Call a POI water. If skin i Rinse cautious nt and easy to	sON rritation o sly with do.
Storage	:	Store in a well-ventilated place.	Keep container tightly close	ed. Keep cool.	
Disposal	1	Dispose of contents and contai and international regulations.	ner in accordance with all lo	cal, regional, n	ational

Code 000001011236		Date of issue	16 February 2024	Version	1.02	
Product nam	ne	SIGMACOVER 280 BASE				

Section 2. Hazards identification

Other hazards which do not	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and
result in classification	cause irritation. Contains a substance that may emit formaldehyde if stored beyond
	its shelf life and/or during cure at curing temperatures greater than 60C (140F).

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Other means of identification	:	00149205; 00169795; 00178218; 00184148; 00185280; 00329292

CAS number/other identifiers

CAS number : Not applicable.	1	i
Ingredient name	%	CAS number
🔽 alc , not containing asbestiform fibres	20 - <30	14807-96-6
xylene	20 - <30	1330-20-7
Epoxy Resin (700 <mw<=1100)< td=""><td>15 - <20</td><td>25036-25-3</td></mw<=1100)<>	15 - <20	25036-25-3
crystalline silica, respirable powder (>10 microns)	10 - <12.5	14808-60-7
titanium dioxide	7 - <10	13463-67-7
Aluminium powder (stabilized)	3 - <5	7429-90-5
ethylbenzene	3 - <5	100-41-4
1-methoxy-2-propanol	2 - <3	107-98-2
4-nonylphenol, branched	2 - <3	84852-15-3
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	2 - <3	64742-48-9
crystalline silica, respirable powder (<10 microns)	1 - <2	14808-60-7
Urea, polymer with formaldehyde, butylated	1 - <2	68002-19-7
toluene	0.1 - <0.2	108-88-3
Phenol, 2-nonyl-, branched	0 - <0.1	91672-41-2

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	nedical attention and special treatment needed, if necessary
Notes to physician Specific treatments	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.
	English (US) Colombia 3/15

Code 000001011236		Date of issue	16 February 2024	Version	1.02	
Product nam	ne	SIGMACOVER 280 BASE				

Section 4. First aid measures

Protection of first-aiders	spected that fumes are still present, t k or self-contained breathing apparati	sonal risk or without suitable training. If it the rescuer should wear an appropriate us. It may be dangerous to the person scitation. Wash contaminated clothing or wear gloves.
Potential acute health effects		
Eye contact	ses serious eye irritation.	
Inhalation	nful if inhaled. May cause respiratory	rirritation.
Skin contact	be harmful in contact with skin. Caus cause an allergic skin reaction.	ses skin irritation. Defatting to the skin.
Ingestion	osive to the digestive tract. Causes b	burns.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protec	tive 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	

English (US) Colombia	4/15
-----------------------	------

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. Collect spillage.

Methods and materials for	r containment 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. 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

crystalline silica, respirable powder (>10 microns) Otoxicant. TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2023). [Silic crystalline] titanium dioxide ACGIH TLV (United States, 1/2023). TWA: 0.025 mg/m³ 8 hours. Form: Respirable Aluminium powder (stabilized) ACGIH TLV (United States, 1/2023). TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles ACGIH TLV (United States, 1/2023). [Aluminum, metal and insoluble compounds] TWA: 1 mg/m³ 8 hours. Form: Respirable fraction 1-methoxy-2-propanol ACGIH TLV (United States, 1/2023). Ototoxicant. TWA: 100 ppm 15 minutes. STEL: 360 mg/m³ 15 minutes. STEL: 360 mg/m³ 8 hours. crystalline silica, respirable powder (<10 microns) STEL: 360 mg/m³ 8 hours. TWA: 0.025 mg/m³ 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 ppm 15 minutes. TWA: 0.025 mg/m³ 8 hours. Recommended monitoring procedures Feference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	Ingredient name		Exposure limits
xylene ACGH TLV (United States, 1/2023). [p-xylene and mixtures containing p-xylene Ototoxicant. crystalline silica, respirable powder (>10 microns) TWA: 20 ppm 8 hours. tittanium dioxide ACGH TLV (United States, 1/2023). [Silic crystalline] Aluminium powder (stabilized) TWA: 0.025 mg/m³ 8 hours. Form: Respirable Aluminium powder (stabilized) ACGH TLV (United States, 1/2023). I-methoxy-2-propanol ACGH TLV (United States, 1/2023). 1-methoxy-2-propanol ACGH TLV (United States, 1/2023). crystalline silica, respirable powder (<10 microns)	Talc , not containing asbestifo	rm fibres	ACGIH TLV (United States, 1/2023).
rystalline silica, respirable powder (>10 microns) xylene and mixtures containing p-xylene crystalline silica, respirable powder (>10 microns) TWA: 20 ppm 8 hours. titanium dioxide ACGH TLV (United States, 1/2023). [Silic Aluminium powder (stabilized) ACGH TLV (United States, 1/2023). ethylbenzene ACGH TLV (United States, 1/2023). 1-methoxy-2-propanol ACGH TLV (United States, 1/2023). 1-methoxy-2-propanol ACGH TLV (United States, 1/2023). crystalline silica, respirable powder (<10 microns)	xvlene		
crystalline silica, respirable powder (>10 microns) TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2023). [Silic crystalline] TWA: 0.025 mg/m³ 8 hours. Form: Respirable Aluminium powder (stabilized) ACGIH TLV (United States, 1/2023). [Aluminum, metal and insoluble compounds] TWA: 1 mg/m³ 8 hours. Form: Respirable fraction, finescale particles ACGIH TLV (United States, 1/2023). [Aluminum, metal and insoluble compounds] TWA: 1 mg/m³ 8 hours. Form: Respirable fraction ACGIH TLV (United States, 1/2023). Ototoxicant. TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 369 mg/m³ 15 minutes. STEL: 369 mg/m³ 8 hours. Crystalline] TWA: 0.025 mg/m³ 8 hours. ACGIH TLV (United States, 1/2023). [Silic crystalline] TWA: 0.025 mg/m³ 8 hours. Feference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous sub			xylene and mixtures containing p-xylene]
crystalline silica, respirable powder (>10 microns) ACGIH TLV (United States, 1/2023). [Silic crystalline] TWA: 0.025 mg/m³ 8 hours. Form: Respirable Aluminium powder (stabilized) ACGIH TLV (United States, 1/2023). Aluminium powder (stabilized) ACGIH TLV (United States, 1/2023). I-methoxy-2-propanol ACGIH TLV (United States, 1/2023). I-methoxy-2-propanol ACGIH TLV (United States, 1/2023). crystalline silica, respirable powder (<10 microns)			
titanium dioxide crystalline] titanium dioxide TWA: 0.025 mg/m³ 8 hours. Form: Respirable Aluminium powder (stabilized) ACGIH TLV (United States, 1/2023). TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles ACGIH TLV (United States, 1/2023). TWA: 1 mg/m³ 8 hours. Form: respirable fraction, finescale particles ethylbenzene ACGIH TLV (United States, 1/2023). 1-methoxy-2-propanol ACGIH TLV (United States, 1/2023). states, 1-methoxy-2-propanol STEL: 369 mg/m³ 15 minutes. STEL: 100 ppm 8 hours. crystalline silica, respirable powder (<10 microns)		······································	
TWA: 0.025 mg/m³ 8 hours. Form: Respirable Aluminium powder (stabilized) Aluminium metal and insoluble compounds] TWA: 1 mg/m³ 8 hours. Form: Respirable ACGIH TLV (United States, 1/2023). STEL: 369 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. Crystalline] TWA: 0.025 mg/m³ 8 hours. Form: Respirable Recommended monitoring procedures	crystalline silica, respirable pov	waer (>10 microns)	
titanium dioxide Respirable Aluminium powder (stabilized) ACGIH TLV (United States, 1/2023). TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles ALUMINIUM powder (stabilized) ACGIH TLV (United States, 1/2023). [Aluminum, metal and insoluble compounds] ethylbenzene ACGIH TLV (United States, 1/2023). [Aluminum, metal and insoluble compounds] 1-methoxy-2-propanol ACGIH TLV (United States, 1/2023). Ototoxicant. TWA: 20 ppm 8 hours. aCGIH TLV (United States, 1/2023). STEL: 369 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m³ 8 hours. TWA: 184 mg/m³ 8 hours. TWA: 50 ppm 8 hours. aCGIH TLV (United States, 1/2023). STEL: 300 pm/m³ 8 hours. rwx: 184 mg/m³ 8 hours. TWA: 50 ppm 8 hours. aCGIH TLV (United States, 1/2023). STEL: 300 pm/m³ 8 hours. rwa: 50 ppm 8 hours. aCGIH TLV (United States, 1/2023). STEL: 300 pm/m³ 8 hours. rwa: 50 ppm 8 hours. aCGIH TLV (United States, 1/2023). STEL: 300 pm/m³ 8 hours. rwa: 50 ppm 8 hours. aCGIH TLV (United States, 1/2023). States monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.			
titanium dioxide Aluminium powder (stabilized) Aluminium powder (stabilized) ethylbenzene 1-methoxy-2-propanol crystalline silica, respirable powder (<10 microns) ACGIH TLV (United States, 1/2023). TWA: 1 mg/m ³ 8 hours. Form: Respirable fraction ACGIH TLV (United States, 1/2023). TWA: 1 mg/m ³ 8 hours. Form: Respirable fraction ACGIH TLV (United States, 1/2023). Ototoxicant. TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 369 mg/m ³ 15 minutes. STEL: 369 mg/m ³ 15 minutes. STEL: 369 mg/m ³ 8 hours. TWA: 100 ppm 15 minutes. STEL: 300 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 300 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2023). STEL: 300 mg/m ³ 8 hours. STEL: 300 mg/m ³ 8 h			
Aluminium powder (stabilized) TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles Aluminium powder (stabilized) ACGIH TLV (United States, 1/2023). [Aluminum, metal and insoluble compounds] TWA: 1 mg/m³ 8 hours. Form: Respirable fraction ethylbenzene ACGIH TLV (United States, 1/2023). 1-methoxy-2-propanol ACGIH TLV (United States, 1/2023). TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 369 mg/m³ 15 minutes. STEL: 369 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). [Silic crystalline silica, respirable powder (<10 microns)	titanium dioxide		•
Aluminium powder (stabilized) fraction, finescale particles Aluminium powder (stabilized) ACGIH TLV (United States, 1/2023). [Aluminum, metal and insoluble compounds] TWA: 1 mg/m³ 8 hours. Form: Respirable fraction ethylbenzene ACGIH TLV (United States, 1/2023). 1-methoxy-2-propanol ACGIH TLV (United States, 1/2023). ottoxicant. TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 369 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m³ 8 hours. TWA: 184 mg/m³ 8 hours. Crystalline silica, respirable powder (<10 microns)			
ethylbenzene Image: Acgin time time time time time time time time			
ethylbenzene TWA: 1 mg/m³ 8 hours. Form: Respirable fraction 1-methoxy-2-propanol ACGIH TLV (United States, 1/2023). 1-methoxy-2-propanol TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 369 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. STEL: 100 ppm 15 minutes. rwA: 184 mg/m³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 100 ppm 15 minutes. rwA: 184 mg/m³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). [Silic crystalline] rwA: 0.025 mg/m³ 8 hours. Form: Respirable 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.	Aluminium powder (stabilized)		
ethylbenzene TWA: 1 mg/m³ 8 hours. Form: Respirable fraction 1-methoxy-2-propanol ACGIH TLV (United States, 1/2023). 1-methoxy-2-propanol TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 369 mg/m³ 15 minutes. STEL: 369 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m³ 8 hours. TWA: 184 mg/m³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 369 mg/m³ 15 minutes. TWA: 184 mg/m³ 8 hours. TWA: 50 ppm 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). [Silic crystalline] TWA: 0.025 mg/m³ 8 hours. Form: Respirable Recommended monitoring procedures : 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.			
ethylbenzene ACGIH TLV (United States, 1/2023). 1-methoxy-2-propanol ACGIH TLV (United States, 1/2023). 1-methoxy-2-propanol STEL: 369 mg/m³ 15 minutes. crystalline silica, respirable powder (<10 microns)			
ethylbenzeneACGIH TLV (United States, 1/2023). Ototoxicant. TWA: 20 ppm 8 hours.1-methoxy-2-propanolACGIH TLV (United States, 1/2023). STEL: 369 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m³ 8 hours. TWA: 184 mg/m³ 8 hours. TWA: 50 ppm 8 hours.crystalline silica, respirable powder (<10 microns)			
1-methoxy-2-propanol Ototoxicant. TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 369 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. crystalline silica, respirable powder (<10 microns)	a thu dha a se sa a		
1-methoxy-2-propanol TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 369 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m³ 8 hours. TWA: 50 ppm 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). [Silic crystalline silica, respirable powder (<10 microns)	etnyibenzene		
1-methoxy-2-propanol ACGIH TLV (United States, 1/2023). STEL: 369 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. crystalline silica, respirable powder (<10 microns)			
crystalline silica, respirable powder (<10 microns)	1-methoxy-2-propanol		
crystalline silica, respirable powder (<10 microns)			,
crystalline silica, respirable powder (<10 microns)			
crystalline silica, respirable powder (<10 microns)			
crystalline] TWA: 0.025 mg/m³ 8 hours. Form: Recommended monitoring procedures : 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.			TWA: 50 ppm 8 hours.
TWA: 0.025 mg/m³ 8 hours. Form: Respirable Recommended monitoring procedures 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.	crystalline silica, respirable powder (<10 microns)		ACGIH TLV (United States, 1/2023). [Silica,
Respirable Recommended monitoring procedures Feference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.			-
Recommended monitoring : 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.			
procedures national guidance documents for methods for the determination of hazardous substances will also be required.			Respirable
Appropriate engineering : Use only with adequate ventilation. Use process enclosures, local exhaust	• • • • • • • • • • • • • • • • • • •	national guidance documents for me	
Appropriate engineering : Use only with adequate ventilation. Use process enclosures, local exhaust			
	Appropriate engineering	,	•
controls ventilation or other engineering controls to keep worker exposure to airborne	controls		
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 : Emissions from ventilation or work process equipment should be checked to ensu			
controls 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 measures

Code 000001011236 Product name SIGMACC	OVER 280 BASE	Date of issue	16 February 2024	Version	1.02
Section 8. Expos	ure contr	ols/personal p	rotection		
Hygiene measures	before eat Appropria Contamina contamina showers a	ing, smoking and using te techniques should be ated work clothing shoul ated clothing before reus ire close to the workstati	horoughly after handling of the lavatory and at the er used to remove potential d not be allowed out of th ing. Ensure that eyewast ion location.	nd of the workin Ily contaminate ne workplace.	ng period. ed clothing. Wash
Eye protection	: Chemical	splash goggles.			
Skin protection Hand protection	: Chemical-	resistant impervious al	oves complying with an a	pproved stand	ard should
	be worn a this is nec check dur should be different fo	t all times when handling essary. Considering the ing use that the gloves a noted that the time to be or different glove manufa ibstances, the protection	g chemical products if a ri e parameters specified by are still retaining their prot reakthrough for any glove acturers. In the case of m n time of the gloves canno	isk assessmer the glove mar tective properti material may nixtures, consis	nt indicates nufacturer, ies. It be sting of
Gloves	: butyl rubb	er			
Body protection	being perf before hai wear anti- discharge	ormed and the risks invo ndling this product. Whe static protective clothing s, clothing should includ	the body should be select olved and should be appr en there is a risk of ignitio . For the greatest protect e anti-static overalls, boo	oved by a spe on from static e tion from static ts and gloves.	cialist electricity, c
Other skin protection	selected b		itional skin protection me performed and the risks in andling this product.		
Respiratory protection	hazards o workers a appropriat	f the product and the sa re exposed to concentra e, certified respirators.	ed on known or anticipated fe working limits of the se tions above the exposure Use a properly fitted, air-p oved standard if a risk ass	elected respirat e limit, they mu purifying or air	tor. If ist use -fed

Section 9. Physical and chemical properties

necessary.

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Aromatic.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 29.3°C (84.7°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	: 1.42

Section 9. Physical and chemical properties

		Media Result	
Solubility(ies)	•	cold water Not soluble	
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	:	60 - 100 s (ISO 6mm)	

1.02

Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingred	dients.
Chemical stability	The product is stable.	
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occ	cur.
Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition products.	1
Incompatible materials	Keep away from the following materials to prevent strong exothermic reaction oxidizing agents, strong alkalis, strong acids.	ns:
Hazardous decomposition products	Depending on conditions, decomposition products may include the following carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides	materials

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
x ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy Resin (700 <mw <=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 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	-
Aluminium powder (stabilized)	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
,	LD50 Oral	Rat	>15900 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	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
		English (US)	Colombia	8/15

roduct name SIGMACOV	ER 280 BASE		nation		16 Febr			Vers		1.02
Hydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, < 2% aromatics		LD50 Dermal Rabbit LD50 Oral Rat LC50 Inhalation Vapor Rat LD50 Dermal Rabbit			1300 mg/kg >5000 mg/kg >6 g/kg 49 g/m ³ 8.39 g/kg 5580 mg/kg			-		
toluene	LC50 Inha							- 4 - -	- 4 hours - -	
Conclusion/Summary <u>rritation/Corrosion</u>	: There a	re no data a	vailable o	n the mixtu	ıre itsel	f.				
Product/ingredient name	Result		Spe	cies	Score)	Exposure	•	Obse	rvation
xylene	Skin - Moc	lerate irritan	it Rat	obit	-		24 hours 5 mg	500	-	
4-nonylphenol, branched	Skin - Eryt	hema/Escha	ar Rab	bit	4		-		-	
Eyes Respiratory Sensitization Not available. Conclusion/Summary Skin Respiratory Autagenicity Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary	: There a : There a : There a : There a	re no data a re no data a re no data a re no data a re no data a	ivailable o ivailable o ivailable o	n the mixtu n the mixtu n the mixtu n the mixtu	ıre itsel ıre itsel ıre itsel	f. f. f.				
Classification	ł	· · · ·								
Product/ingredient name	OSHA	_	NTP							
xylene crystalline silica, respirable powder (>10 microns)	- +	3 1	- Known to	be a hum	an carc	inoge	n.			
titanium dioxide ethylbenzene crystalline silica, respirable powder (<10 microns) toluene	- - +	2B 2B 1 3	- - Known to -	be a hum	an carc	inoge	n.			
Carcinogen Classification	code:	<u> </u>								
IARC: 1, 2A, 2B, 3, 4 NTP: Known to be OSHA: + Not listed/not regul	l a human carc	inogen; Reaso	onably antic	ipated to be	a humai	n carcir	nogen			

Reproductive toxicity

Date of issue

Section 11. Toxicological information

Not available.

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

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
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol toluene	Category 3 Category 3	-	Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Target organs

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

Aspiration hazard

Name	Result
xylene ethylbenzene Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics toluene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	1	Not available.
Potential acute health effects		
Eye contact	1	Causes serious eye irritation.
Inhalation	1	Harmful if inhaled. 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	÷	Corrosive to the digestive tract. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

English (US) Colombia
Linghian	00	

Date of issue

Section 11. Toxicological information

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	Adverse symptoms may include the following: irritation redness dryness cracking 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	: There are no data available on the mixture itself. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. 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 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

English (US)

Section 11. Toxicological information

Potential immediate	: There are no data available on the mixture itself.
effects	
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health effe	<u>ets</u>
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: 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)
SIGMACOVER 280 BASE	5804.9	3059.0	N/A	21.2	2.7
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
ethylbenzene	3500	17800	N/A	17.8	1.5
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
toluene	5580	8390	N/A	49	N/A
Phenol, 2-nonyl-, branched	500	N/A	N/A	N/A	N/A

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
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	-
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
Phenol, 2-nonyl-, branched	Acute LC50 0.017 mg/l	Fish - Pleuronectes americanus	96 hours

English (US) Colombia 1.	2/15	;
--------------------------	------	---

Section 12. Ecological information

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
xylene ethylbenzene toluene	- - -		- - -		Readily Readily Readily	/

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
1-methoxy-2-propanol	<1	-	Low
4-nonylphenol, branched	5.4	251.19	Low
toluene	2.73	8.32	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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 nonrecyclable 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

Section 14. Transport information

	=			
	UN	Brazil (ANTT)	IMDG	IATA
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	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(4-nonylphenol, branched)	Not applicable.

Additional information

UN	: None identified.
Brazil	: None identified.
Risk number	: 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 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	1	No known specific national and/or regional regulations applicable to this product
environmental regulations		(including its ingredients).
specific for the product		

Section 16. Other information

History

Date of previous issue	: 11/15/2022
Version	: 1.02
	EHS

Section 16. Other information

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.