SAFETY DATA SHEET



Date of issue 26 July 2021

Version 4

Section 1. Product and company identification

Product name	
Product code	
Other means of identification	
Product type	

- : SIGMAPRIME 700 BAS GREY 500000 : 267438L.20
- : 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	 PPG Industrial do Brasil – Tintas e Vernizes Ltda Via Anhanguera KM 106, Bairro Sao Judas Tadeu Sumare / SP, Brasil 55 19 2103-6000 (Recepção e Portaria)
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

Classification of the substance or mixture	 AMMABLE 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 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC UMJAPPD (ACUTE)

English	(US)	Br

Section 2. Hazar	ds identification
Target organs	 Contains material which causes damage to the following organs: liver, spleen, brain, bone marrow, central nervous system (CNS), eye, lens or cornea. Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, the reproductive system, heart, cardiovascular system, upper respiratory tract, immune system, skin, ears. Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 46.3% 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: 68.2%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Fammable liquid and vapor. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	: Detain 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. Wash thoroughly after handling.
Response	: Collect spillage. 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 cool.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.

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Section 2. Hazards identification

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation. Contains a result in classification

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	: Not available.
identification	

CAS number/other identifiers

CAS number : Not applicable.		
Ingredient name	%	CAS number
₽ poxy Resin (700 <mw<=1100)< p=""></mw<=1100)<>	15 - <20	25036-25-3
crystalline silica, respirable powder (>10 microns)	15 - <20	14808-60-7
calcium carbonate	10 - <12.5	471-34-1
xylene	7 - <10	1330-20-7
crystalline silica, respirable powder (<10 microns)	5 - <7	14808-60-7
Talc, not containing asbestiform fibers	3 - <5	14807-96-6
diisobutyl phthalate	3 - <5	84-69-5
Aluminium powder (stabilized)	3 - <5	7429-90-5
titanium dioxide	2 - <3	13463-67-7
Solvent naphtha (petroleum), heavy arom.	2 - <3	64742-94-5
1-methoxy-2-propanol	2 - <3	107-98-2
ethylbenzene	1 - <2	100-41-4
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	1 - <2	64742-48-9 (EC
		918-481-9)
2-methylpropan-1-ol	1 - <2	78-83-1
2,3-epoxypropyl neodecanoate	1 - <2	26761-45-5
Urea, polymer with formaldehyde, butylated	1 - <2	68002-19-7
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid	1 - <2	911674-82-3
and 1,3-phenylenedimethanamine		
4-nonylphenol, branched	0.5 - <1	84852-15-3
naphthalene	0.2 - <0.5	91-20-3

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.			

English (US)

Code 267438L.20 Product name SIGMAPI	Date of issue RIME 700 BAS GREY 500000	26 July 2021	Version 4
Section 4. First a			
			this sentsing a subshall
Ingestion	: If swallowed, seek medical advic Keep person warm and at rest.		
Indication of immediate me	edical attention and special treatmer	nt needed, if necessary	
Notes to physician	: In case of inhalation of decompo	sition products in a fire,	symptoms may be delaye
Specific treatments	: The exposed person may need t		
	No specific treatment.		
Protection of first-aiders	No action shall be taken involvin is suspected that fumes are still mask or self-contained breathing providing aid to give mouth-to-m thoroughly with water before rem	present, the rescuer sho g apparatus. It may be d outh resuscitation. Was	uld wear an appropriate angerous to the person
Potential acute health effe	<u>cts</u>		
Eye contact	: Causes serious eye irritation.		
Inhalation	: Harmful if inhaled.		
Skin contact	: May be harmful in contact with s May cause an allergic skin react		n. Defatting to the skin.
Ingestion	: No known significant effects or o	ritical hazards.	

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, protection	ctive 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	: 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 c	ontainment 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 : 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 handling 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 nonsparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities	: Do not store above the following temperature: 35°C (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.
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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

vystalline silica, respirable powder (>10 microns) calcium carbonate	ACGIH TLV (United States, 3/2020). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction ACGIH TLV (United States).
	•
	ACGIH TLV (United States).
	TWA: 3 mg/m ³ Form: Respirable
	TWA: 10 mg/m ³ Form: Total dust
xylene	Ministry of Labor and Employment (Brazil,
	11/2001).
	TWA: 340 mg/m ³ 8 hours.
	TWA: 78 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 3/2020).
	TWA: 0.025 mg/m ³ 8 hours. Form:
Talc, not containing asbestiform fibers	ACGIH TLV (United States, 3/2020).
Aluminium nowder (stabilized)	TWA: 2 mg/m ³ 8 hours. Form: Respirable ACGIH TLV (United States, 3/2020).
Aluminium powder (stabilized)	TWA: 1 mg/m ³ 8 hours. Form: Respirable
	fraction
titanium dioxide	ACGIH TLV (United States, 3/2020).
	TWA: 10 mg/m ³ 8 hours.
1-methoxy-2-propanol	ACGIH TLV (United States, 3/2020).
T-metiloxy-z-piopanoi	STEL: 369 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: $184 \text{ mg/m}^3 8 \text{ hours.}$
	TWA: 50 ppm 8 hours.
ethylbenzene	Ministry of Labor and Employment (Brazil,
	11/2001).
	TWA: 340 mg/m ³ 8 hours.
	TWA: 78 ppm 8 hours.
2-methylpropan-1-ol	Ministry of Labor and Employment (Brazil,
	11/2001).
	TWA: 115 mg/m ³ 8 hours.
	TWA: 40 ppm 8 hours.
Reaction products of 12-hydroxyoctadecanoic acid and octadecano	ic ACGIH TLV (United States).
acid and 1,3-phenylenedimethanamine	TWA: 3 mg/m ³ , (Respirable fraction)
naphthalene	ACGIH TLV (United States, 3/2020).
	Absorbed through skin.

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Section 8. Exposure controls/personal protection

		VA: 52 mg/m³ 8 hours. VA: 10 ppm 8 hours.
Recommended monitoring procedures		be required to determine the effectiveness s and/or the necessity to use respiratory be made to appropriate monitoring e documents for methods for the
Appropriate engineering controls	only with adequate ventilation. Use pr ilation or other engineering controls to aminants below any recommended or need to keep gas, vapor or dust conce s. Use explosion-proof ventilation equ	keep worker exposure to airborne statutory limits. The engineering controls entrations below any lower explosive
Environmental exposure controls		
Individual protection measu		
Hygiene measures		tory and at the end of the working period. remove potentially contaminated clothing. allowed out of the workplace. Wash sure that eyewash stations and safety
Eye protection Skin protection	mical splash goggles.	
Hand protection	orn at all times when handling chemic is necessary. Considering the parame is during use that the gloves are still re ald be noted that the time to breakthrou	ugh for any glove material may be In the case of mixtures, consisting of
Gloves	lrubber	
Body protection	g performed and the risks involved and	is a risk of ignition from static electricity, e greatest protection from static
Other skin protection	ropriate footwear and any additional sk	kin protection measures should be ed and the risks involved and should be
Respiratory protection	ards of the product and the safe workin ers are exposed to concentrations abo opriate, certified respirators. Use a pr	ove the exposure limit, they must use

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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: 39°C (102.2°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	: 1.47
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	: ₭inematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Viscosity	: > 100 s (ISO 6mm)

Section 10. Stability and reactivity

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

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
₽poxy Resin (700 <mw< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<>	LD50 Dermal	Rat	>2000 mg/kg	-
<=1100)			5.5	
,	LD50 Oral	Rat	>2000 mg/kg	-
calcium carbonate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	6450 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
diisobutyl phthalate	LD50 Oral	Rat	15 g/kg	-
Aluminium powder (stabilized)	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	>15900 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	-
Solvent naphtha (petroleum), heavy arom.	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
	LD50 Oral	Rat	>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	-
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	-
Hydrocarbons, C10-C13, n-	LD50 Dermal	Rabbit	>5000 mg/kg	-
alkanes, isoalkanes, cyclics, < 2% aromatics				
	LD50 Oral	Rat	>6 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
2,3-epoxypropyl neodecanoate	LD50 Dermal	Rat	3800 mg/kg	-
	LD50 Oral	Rat	9.6 g/kg	-
Reaction products of	LC50 Inhalation Dusts and mists	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic				
acid and octadecanoic acid				
and				
1,3-phenylenedimethanamine				
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-
O a maliana (O a mana a ma	. There are no data available an	1	1	L

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
4-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	mg -	-

English (US)	Brazil	9/16

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Section 11. Toxicological information

	-	
Conclusion/Summary		
Skin	: There are no data available on the mixture itself.	
Eyes	: There are no data available on the mixture itself.	
Respiratory	: There are no data available on the mixture itself.	
Sensitization		
Not available.		
Conclusion/Summary		
Skin	: There are no data available on the mixture itself.	
Respiratory	: There are no data available on the mixture itself.	
Mutagenicity		
Not available.		
Conclusion/Summary	: There are no data available on the mixture itself.	
<u>Carcinogenicity</u>		
Not available.		
Conclusion/Summary	: There are no data available on the mixture itself.	
Classification		

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

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.

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. <u>Specific target organ toxicity (single exposure)</u>

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Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
x ylene	Category 3	-	Respiratory tract irritation
Talc, not containing asbestiform fibers	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), heavy arom.	Category 3	-	Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Target organs

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

English (US)

Aspiration hazard

Name	Result
xylene Solvent naphtha (petroleum), heavy arom. ethylbenzene Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2

Information on the likely routes of exposure	: Not available.
Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled.
Skin contact	: May be 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.
Symptoms related to the phy	sical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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Section 11. Toxicological information

	-
Inhalation	: Adverse symptoms may include the following: 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: 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 PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Long term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
		English (US) Brazil 12/16

Section 11. Toxicological information

Potential chronic health effects

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	: Suspected of causing genetic defects.
Reproductive toxicity	: May damage 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)
GMAPRIME 700 BAS GREY 500000	6124.5	2892.9	N/A	28	3.6
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
calcium carbonate	6450	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
diisobutyl phthalate	15000	N/A	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
2,3-epoxypropyl neodecanoate	9600	3800	N/A	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
naphthalene	490	N/A	N/A	N/A	N/A

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
zalcium carbonate	Acute EC10 >14 mg/l	Algae	72 hours
diisobutyl phthalate	Chronic NOEC 62.6 to 97.3 µg/l Fresh water	Fish - Danio rerio - Adult	30 days
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Solvent naphtha (petroleum), neavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
	Acute EC50 1100 mg/l	Daphnia	48 hours
2,3-epoxypropyl neodecanoate	Acute EC50 3.5 mg/l	Algae	96 hours
	Acute EC50 4.8 mg/l	Daphnia - Daphnia magna	48 hours

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Section 12. Ecolo	gical information		
	Acute LC50 9.6 mg/l	Fish - Oncorhynchus mykiss	96 hours
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	Acute LC50 >100 mg/l	Fish	96 hours
4-nonylphenol, branched	Acute EC50 0.04 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0.044 mg/l Acute LC50 0.221 mg/l	Crustaceans - Moina macrocopa Fish	48 hours 96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose	Inoculum
ethylbenzene	-	79 % - Rea	79 % - Readily - 10 days		-
Product/ingredient name	Aquatic half-li	ife	Photolysis		Biodegradability
xylene ethylbenzene 2,3-epoxypropyl neodecanoate			- - -		Readily Readily Not readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	low
diisobutyl phthalate	4.11	622	high
Solvent naphtha (petroleum),	2.8 to 6.5	-	high
heavy arom.			
1-methoxy-2-propanol	<1	-	low
ethylbenzene	3.6	79.43	low
2-methylpropan-1-ol	1	-	low
2,3-epoxypropyl	4.4	-	high
neodecanoate			
4-nonylphenol, branched	5.4	251.19	low
naphthalene	3.4	85.11	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 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

English (US)	Brazil	14/16
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Section 13. Disposal considerations

and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group		III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Solvent naphtha (petroleum), heavy aromatic, 2,3-epoxypropyl neodecanoate)	Not applicable.

Additional information

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 environmental regulations specific for the product

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

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Date of issue

Section 16. Other information

<u>History</u>	
Date of previous issue	: 12/18/2019
Version	: 4
Prepared by	: EHS
Key to abbreviations	 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations
References	: ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.