SAFETY DATA SHEET



Date of issue 4 March 2023

Version 7.01

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMAFAST 278 GRAY RAL7032
- : 320756L.20
- n : 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	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
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Section 2. Hazards identification

Target organs	: Contains material which causes damage to the following organs: liver, spleen, brair
	skin, bone marrow. 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, central nervous system (CNS), ears, eye,
	lens or cornea.
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity. 38.9%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 42.3%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 73.8%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 49.1%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. May be harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful if inhaled.
	Suspected of causing genetic defects. May cause cancer.
	Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
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 no eat, drink or smoke when using this product.
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing 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 Cot medical advice or attention. IE IN EXES: Pinse coutions with water for sever

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Storage

Immediately call a POISON CENTER or doctor.Store in a well-ventilated place. Keep cool.

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.

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Section 2. Hazards identification

Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

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

CAS number/other identifiers

Ingredient name	%	CAS number
prystalline silica, respirable powder (<10 microns)	20 - <30	14808-60-7
Epoxy resin (MW ≤ 700)	15 - <20	25068-38-6
titanium dioxide	10 - <12.5	13463-67-7
calcium carbonate	7 - <10	471-34-1
4-nonylphenol, branched	5 - <7	84852-15-3
xylene	5 - <7	1330-20-7
Talc , not containing asbestiform fibres	3 - <5	14807-96-6
1-methoxy-2-propanol	1 - <2	107-98-2
ethylbenzene	1 - <2	100-41-4
2,3-epoxypropyl neodecanoate	1 - <2	26761-45-5
trizinc bis(orthophosphate)	0.5 - <1	7779-90-0
propylidynetrimethanol	0.1 - <0.2	77-99-6
maleic anhydride	0 - <0.1	108-31-6

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	 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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

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Section 4. First aid measures

Notes to physician		Treat symptomatically. Contact poison treatment specialist immediately if large
Specific treatments	4	quantities have been ingested or inhaled.
		No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Potential acute health effects		
Eye contact	1	Causes serious eye damage.
Inhalation	1	Harmful if inhaled.
Skin contact	:	Causes severe burns. May be harmful in contact with skin. Defatting to the skin.
he was at the se		May cause an allergic skin reaction.
Ingestion	÷	May be harmful if swallowed. Corrosive to the digestive tract. Causes 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 very 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 halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: 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, protective equipment and emergency procedures			
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.		

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	release measures	Section 6. Accidental release measures					
info	pecialized clothing is required to ormation in Section 8 on suitable ormation in "For non-emergency	e and unsuitable material		9			
drai env May	id dispersal of spilled material a ns and sewers. Inform the rele ironmental pollution (sewers, wa be harmful to the environment	vant authorities if the pro aterways, soil or air). Wa	duct has cause ater polluting ma	d aterial.			
Methods and materials for contain	<u>ment and cleaning up</u>						
and Alte app	o leak if without risk. Move con explosion-proof equipment. Di rnatively, or if water-insoluble, a ropriate waste disposal contain tractor.	ilute with water and mop absorb with an inert dry m	up if water-solul naterial and plac	ble. ce in an			
and sew efflu con and Dis mat	b leak if without risk. Move con explosion-proof equipment. Appers, water courses, basements uent treatment plant or proceed abustible, absorbent material e.g place in container for disposal pose of via a licensed waste dis erial may pose the same hazar ergency contact information and	pproach release from up or confined areas. Was as follows. Contain and g. sand, earth, vermiculit according to local regula posal contractor. Contar d as the spilled product.	wind. Prevent e h spillages into collect spillage e or diatomaced tions (see Section minated absorbe Note: see Section	ntry into an with non- ous earth on 13). ent			

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Section 7. Handling and storage

Precautions for safe handling	 	Put on appropriate personal protective equipment (see Section 8). Persons with history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before u Avoid exposure during pregnancy. Do not handle until all safety precautions has 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 o 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 compatible material, kept tightly closed when not in use. Store and use away fro 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.	use. ve nly y a
Conditions for safe storage, including any incompatibilities	t t	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 origin container protected from direct sunlight in a dry, cool and well-ventilated area, a from incompatible materials (see Section 10) and food and drink. Store locked Eliminate all ignition sources. Separate from oxidizing materials. Keep contained 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 us	nal way up. er I se.
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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits
vystalline silica, respirable powder (<10 microns)		ACGIH TLV (United States, 1/2022). [Silica, crystalline] TWA: 0.025 mg/m ³ 8 hours. Form:
titanium dioxide		Respirable ACGIH TLV (United States, 1/2022). TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles
calcium carbonate		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). [Xylenes (o-, m-, p- isomers)] TWA: 340 mg/m ³ 8 hours. TWA: 78 ppm 8 hours.
Talc , not containing asbestifor	rm fibres	ACGIH TLV (United States, 1/2022).
1-methoxy-2-propanol		TWA: 2 mg/m ³ 8 hours. Form: Respirable ACGIH TLV (United States, 1/2022). STEL: 369 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m ³ 8 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.
maleic anhydride		ACGIH TLV (United States, 1/2022). Skin sensitizer. Inhalation sensitizer. TWA: 0.01 mg/m ³ 8 hours. Form: Inhalable fraction and vapor
Recommended monitoring procedures		briate monitoring standards. Reference to the third standards for the determination of hazardous
Appropriate engineering controls	contaminants below any recommend also need to keep gas, vapor or dust	ols to keep worker exposure to airborne ed or statutory limits. The engineering controls concentrations below any lower explosive
 Environmental exposure controls Limits. Use explosion-proof ventilation equipment. Emissions from ventilation or work process equipment should be checked to er they comply with the requirements of environmental protection legislation. In second cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. 		ocess equipment should be checked to ensure environmental protection legislation. In some ineering modifications to the process

Individual protection measures

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Section 8. Ex	posure controls/personal protection
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	: Chemical splash goggles and face shield.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protect	 ion : 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 protect	ion : 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 available.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 31°C (87.8°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	: 1.66

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Section 9. Physical and chemical properties

Solubility(ies)	Media	Result
Solubility(les)	. cold water	Soluble
Partition coefficient: n- octanol/water	: Not applicable.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Viscosity : Kinematic (40°C (104°F)): >21 mm ² /s (>21 cSt)		(104°F)): >21 mm²/s (>21 cSt)
Viscosity : > 100 s (ISO 6mm)		n)

Section 10. Stability and reactivity

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
calcium carbonate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	6450 mg/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 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
5	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2,3-epoxypropyl	LD50 Dermal	Rat	3800 mg/kg	-
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Section 11. Toxico	logical	infor	mation						
neodecanoate				Det		0.0 -	//		
trizinc bis(orthophosphate)	LD50 Oral LC50 Inhala LD50 Oral	C50 Inhalation Dusts and mists Rat >5.7 mg/l 4 hours						hours	
propylidynetrimethanol	LD50 Dermal Rabbit LD50 Oral Rat					10 g/		-	
maleic anhydride	LD50 Derm LD50 Oral	al		Rabbit Rat			mg/kg mg/kg	-	
Conclusion/Summary rritation/Corrosion	: There are	e no data	available on	the mixt	ure itsel	f.			
Product/ingredient name	Result		Spec	ies	Score)	Exposure		Observation
Epoxy resin (MW ≤ 700) 4-nonylphenol, branched	Eyes - Mild Skin - Mild i Skin - Eryth	rritant	Rabb Rabb har Rabb	oit	- - 4		- - -		-
xylene	Skin - Mode				-	- 24 hours 500 mg		00	-
Conclusion/Summary	. Theme and			41		£			
Skin			available on						
Eyes			available on	the mixt	ure itsei	T.			
		n na data	available on	the mixt	ura itaal	f			
Respiratory Sensitization	: There are	e no data	available on	the mixt	ure itsel	f.			
Sensitization Product/ingredient name	Route of		available on	the mixt	ure itsel	f. Resu	llt		
Sensitization		Sr		the mixt	ure itsel	Resu	lt itizing		
Sensitization Product/ingredient name	Route of exposure	Sr	pecies	the mixt	ure itsel	Resu			
Sensitization Product/ingredient name Epoxy resin (MW ≤ 700)	Route of exposure skin	Sr M	pecies			Resu Sens			
Sensitization Product/ingredient name Epoxy resin (MW ≤ 700) Conclusion/Summary	Route of exposure skin : There are	Sr M e no data	pecies ouse	the mixt	ure itsel	Resu Sens f.			
Sensitization Product/ingredient name Epoxy resin (MW ≤ 700) Conclusion/Summary Skin	Route of exposure skin : There are	Sr M e no data	pecies ouse available on	the mixt	ure itsel	Resu Sens f.			
Sensitization Product/ingredient name Epoxy resin (MW ≤ 700) Conclusion/Summary Skin Respiratory Mutagenicity Not available. Conclusion/Summary Canclusion/Summary Conclusion/Summary Conclusion/Summary	Route of exposure skin : There are : There are	M M e no data e no data	pecies ouse available on	the mixt the mixt	ure itsel ure itsel	Resu Sens f. f.			
Sensitization Product/ingredient name Epoxy resin (MW ≤ 700) Conclusion/Summary Skin Respiratory Mutagenicity Not available. Conclusion/Summary	Route of exposure skin : There are : There are : There are	M e no data e no data e no data	pecies ouse available on available on	the mixt the mixt the mixt	ure itsel ure itsel ure itsel	Resu Sens f. f. f.			
Sensitization Product/ingredient name Epoxy resin (MW ≤ 700) Conclusion/Summary Skin Respiratory Mutagenicity Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary	Route of exposure skin : There are : There are : There are	M e no data e no data e no data	ouse available on available on available on	the mixt the mixt the mixt	ure itsel ure itsel ure itsel	Resu Sens f. f. f.			
Sensitization Product/ingredient name Epoxy resin (MW ≤ 700) Conclusion/Summary Skin Respiratory Mutagenicity Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary Classification Product/ingredient name Fystalline silica, respirable	Route of exposure skin : There are : There are : There are	M e no data e no data e no data e no data	pecies ouse available on available on available on	the mixt the mixt the mixt	ure itsel ure itsel ure itsel	Resu Sens f. f. f.	itizing		
Sensitization Product/ingredient name Epoxy resin (MW ≤ 700) Conclusion/Summary Skin Respiratory Mutagenicity Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary Classification Product/ingredient name	Route of exposure skin : There are : There are : There are	M e no data e no data e no data e no data	pecies ouse available on available on available on available on	the mixt the mixt the mixt	ure itsel ure itsel ure itsel	Resu Sens f. f. f.	itizing		
Sensitization Product/ingredient name Epoxy resin (MW ≤ 700) Conclusion/Summary Skin Respiratory Mutagenicity Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary Classification Product/ingredient name Fystalline silica, respirable powder (<10 microns)	Route of exposure skin : There are : There are : There are	M e no data e no data e no data e no data IARC 1	pecies ouse available on available on available on available on	the mixt the mixt the mixt	ure itsel ure itsel ure itsel	Resu Sens f. f. f.	itizing		

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

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Section 11. Toxicological information

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.

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
1-methoxy-2-propanol	Category 3	-	Narcotic effects

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Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
	Category 2	inhalation - inhalation	- hearing organs respiratory system

Target organs

: Contains material which causes damage to the following organs: liver, spleen, brain, skin, bone marrow.

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, central nervous system (CNS), ears, eye, lens or cornea.

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	:	Harmful if inhaled.
Skin contact	:	Causes severe burns. May be harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

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Section 11. Toxicological information

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	 Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

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

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Section 11. Toxicological information

<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 eff	ects
Not available.	
General	: Causes damage to organs through prolonged or rep repeated contact can defat the skin and lead to irrita

General	: Causes 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	: 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)
SIGMAFAST 278 GRAY RAL7032	4475.6	3409.3	N/A	38.1	4.9
Epoxy resin (MW ≤ 700)	2500	2500	N/A	N/A	N/A
calcium carbonate	6450	2500	N/A	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
2,3-epoxypropyl neodecanoate	9600	3800	N/A	N/A	N/A
propylidynetrimethanol	14000	10000	N/A	N/A	N/A
maleic anhydride	400	2620	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
calcium carbonate	Acute EC10 >14 mg/l	Algae	72 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
y 1 1	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	-
2,3-epoxypropyl	Acute EC50 3.5 mg/l	Algae	96 hours
		English (US) Brazil	12/15

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Section 12. Ecological information

Acute EC50 4.8 mg/l	Daphnia - Daphnia magna	48 hours
Acute LC50 9.6 mg/l	Fish - Oncorhynchus mykiss	96 hours
Acute LC50 0.112 mg/l	Fish	96 hours
Chronic NOEC 0.026 mg/l	Fish	30 days
Acute LC50 >1000 mg/l	Fish	96 hours
	Acute LC50 9.6 mg/l Acute LC50 0.112 mg/l Chronic NOEC 0.026 mg/l	Acute LC50 9.6 mg/lFish - Oncorhynchus mykissAcute LC50 0.112 mg/lFishChronic NOEC 0.026 mg/lFish

Persistence/degradability

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

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Epoxy resin (MW ≤ 700)	3	31	low
4-nonylphenol, branched	5.4	251.19	low
xylene	3.12	7.4 to 18.5	low
1-methoxy-2-propanol	<1	-	low
ethylbenzene	3.6	79.43	low
2,3-epoxypropyl neodecanoate	4.4	-	high
propylidynetrimethanol maleic anhydride	-0.47 -2.78	-	low low

Mobility in soil

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

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the
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English (US) Brazil 13/15

Section 13. Disposal considerations

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	UN3470	UN3470	UN3470
UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
Transport hazard class(es)	8 (3)	8 (3)	8 (3)
Packing group	II	II	II
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.	(Epoxy resin (MW ≤ 700), 4-nonylphenol, branched)	Not applicable.

Additional inform	Additional information				
Brazil	: None identified.				
Risk number	: 83				
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 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).

Section 16. Other information

<u>History</u>

Date of previous issue	: 5/18/2021
Version	: 7.01
Prepared by	: EHS

English (US)

Brazil

7.01

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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,
References	 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 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.