# **SAFETY DATA SHEET**



Date of issue	18 May 2021
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Version 5.02

### Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

: SIGMAFAST 278 BASE BASE L

- : 00346493
- : Not available.
  - : Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

#### **Identified uses**

Coating. Paints. Painting-related materials.

Uses advised against	Reason	
Not applicable.		

Supplier's details:	
Supplier	<ul> <li>PPG Industrial do Brasil – Tintas e Vernizes Ltda</li> <li>Via Anhanguera KM 106, Bairro Sao Judas Tadeu</li> <li>Sumare / SP, Brasil</li> <li>55 19 2103-6000 (Recepção e Portaria)</li> </ul>
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: 0800 707 1767 / 0800 707 7022 – Empresa Suatrans Cotec 0800 14 8110 – CEATOX - Centro de Assistência Toxicológica

### Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 5 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 1

English	(US)	Brazil
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Section 2. Hazards	s identification
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: 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 dermal toxicity: 40.8%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 33.9%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. May be harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Dotain 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.
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: 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. Immediately call a POISON CENTER or doctor.
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.
Other hazards which do not result in classification	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

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### Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

: Mixture

: Not available.

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

CAS number

: Not applicable.

Ingredient name	%	CAS number
titanium dioxide	20 - <30	13463-67-7
Epoxy resin (MW ≤ 700)	15 - <20	25068-38-6
crystalline silica, respirable powder (>10 microns)	15 - <20	14808-60-7
xylene	7 - <10	1330-20-7
4-nonylphenol, branched	5 - <7	84852-15-3
Talc , not containing asbestiform fibres	5 - <7	14807-96-6
crystalline silica, respirable powder (<10 microns)	5 - <7	14808-60-7
1-methoxy-2-propanol	1 - <2	107-98-2
ethylbenzene	1 - <2	100-41-4
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	1 - <2	68609-97-2
trizinc bis(orthophosphate)	0.5 - <1	7779-90-0
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 firs	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 medi	al attention and special treatment needed, if necessary
Notes to physician Specific treatments	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> <li>No specific treatment.</li> </ul>
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 offects	

#### Potential acute health effects

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## Section 4. First aid measures

Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	<ul> <li>Causes severe burns. May be harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.</li> </ul>
Ingestion	: 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 <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures						
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.					
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".					
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.					

#### Methods and materials for containment and cleaning up

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Section 6. Accidental release measures					
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.				

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### 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

<u>Control parameters</u> <u>Occupational exposure limits</u>

Brazil

## Section 8. Exposure controls/personal protection

Ingredient name		Exposure limits				
titanium dioxide		ACGIH TLV (United States, 3/2020).				
crystalline silica, respirable po	owder (>10 microns)	TWA: 10 mg/m <sup>3</sup> 8 hours. <b>ACGIH TLV (United States, 3/2020).</b> TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:				
		Respirable fraction				
xylene		Ministry of Labor and Employment (Brazil,				
		11/2001).				
		TWA: 340 mg/m <sup>3</sup> 8 hours. TWA: 78 ppm 8 hours.				
Talc , not containing asbestife	orm fibres	ACGIH TLV (United States, 3/2020).				
		TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable				
crystalline silica, respirable po	owder (<10 microns)	ACGIH TLV (United States, 3/2020).				
		TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:				
1-methoxy-2-propanol		Respirable ACGIH TLV (United States, 3/2020).				
		STEL: 369 mg/m <sup>3</sup> 15 minutes.				
		STEL: 100 ppm 15 minutes.				
		TWA: 184 mg/m <sup>3</sup> 8 hours.				
athuthanzana		TWA: 50 ppm 8 hours.				
ethylbenzene		Ministry of Labor and Employment (Brazil, 11/2001).				
		TWA: $340 \text{ mg/m}^3 8 \text{ hours.}$				
		TWA: 78 ppm 8 hours.				
maleic anhydride		ACGIH TLV (United States, 3/2020). Skin				
		sensitizer. Inhalation sensitizer. TWA: 0.01 mg/m <sup>3</sup> 8 hours. Form: Inhalable				
		fraction and vapor				
Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace						
procedures	atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.					
Appropriate engineering	<b>j</b>	Use process enclosures, local exhaust				
controls	ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive					
Environmental exposure controls	<ul> <li>limits. Use explosion-proof ventilation equipment.</li> <li>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.</li> </ul>					
	equipment will be necessary to red					

**Individual protection measures** 

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Product name SIGN	AFAST 278 BASE BASE L
Section 8. Exp	osure 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 protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## Section 9. Physical and chemical properties

	English (US) Brazil 7/15
Solubility	: Insoluble in the following materials: cold water.
Relative density	: 1.7
Vapor density	: Not available.
Vapor pressure	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Flammability (solid, gas)	: Not available.
Evaporation rate	: Not available.
Flash point	: Closed cup: 38°C (100.4°F)
Boiling point	: >37.78°C (>100°F)
Melting point	: Not available.
рН	: Not applicable.
Odor	: Aromatic.
Color	: Various
Physical state	: Liquid.
<u>Appearance</u>	

### Section 9. Physical and chemical properties

Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: <b>K</b> inematic (40°C (104°F)): >21 mm²/s (>21 cSt)

### 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       : Øepending on conditions, decomposition products may include the following materials compounds metal oxide/oxides			
Possibility of hazardous       : 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       : Depending on conditions, decomposition products may include the following materials	Reactivity	specific test data related to reactivity available for this product or	its ingredients.
reactions         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       : Depending on conditions, decomposition products may include the following materials	Chemical stability	e product is stable.	
Incompatible materials       : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.         Hazardous decomposition       : Depending on conditions, decomposition products may include the following materials		ider normal conditions of storage and use, hazardous reactions w	ill not occur.
oxidizing agents, strong alkalis, strong acids.Hazardous decomposition: Depending on conditions, decomposition products may include the following mater	Conditions to avoid		nposition
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### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity **Product/ingredient name Species** Exposure Result Dose 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 Epoxy resin (MW $\leq$ 700) >2 g/kg LD50 Dermal Rabbit \_ >2 g/kg LD50 Oral Rat \_ xylene 1.7 g/kg LD50 Dermal Rabbit LD50 Oral Rat 4.3 g/kg \_ 4-nonylphenol, branched LD50 Dermal Rabbit 2.14 g/kg \_ LD50 Oral Rat 1300 mg/kg -13 g/kg 1-methoxy-2-propanol LD50 Dermal Rabbit -LD50 Oral Rat 5.2 g/kg LC50 Inhalation Vapor 4 hours ethylbenzene Rat 17.8 mg/l LD50 Dermal Rabbit 17.8 g/kg LD50 Oral Rat 3.5 g/kg LD50 Oral 17100 mg/kg oxirane, mono[ Rat \_ (C12-14-alkyloxy)methyl] derivs. trizinc bis(orthophosphate) LC50 Inhalation Dusts and mists Rat 4 hours >5.7 mg/l LD50 Oral Rat >5000 mg/kg maleic anhydride LD50 Dermal Rabbit 2620 mg/kg \_ LD50 Oral Rat 400 mg/kg \_

**Conclusion/Summary** 

: There are no data available on the mixture itself.

Date of issue

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## Section 11. Toxicological information

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Not listed/not regulated: -

#### Reproductive toxicity

Not available.

Conclusion/Summary

: There are no data available on the mixture itself.

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### Section 11. Toxicological information

#### **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
crystalline silica, respirable powder (<10 microns) ethylbenzene maleic anhydride	Category 2		- 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: 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 Potential acute health effect:		Not available.
Eye contact	1	Causes serious eye damage.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	:	Causes severe burns. May be harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	Corrosive to the digestive tract. Causes burns.
Symptoms related to the phy	<u>/si</u>	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following:

Eye contact	: Adverse symptoms may include the following:
	pain
	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: 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 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 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	: 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.

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### 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	: 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)
SIGMAFAST 278 BASE BASE L	5750.7	4307.2	N/A	66.6	8.5
Epoxy resin (MW ≤ 700)	2500	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
4-nonylphenol, branched	1300	2140	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
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	17100	N/A	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
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Epoxy resin (MW  ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
4-nonylphenol, branched	Acute EC50 0.04 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	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
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
	Chronic NOEC 0.026 mg/l	Fish	30 days

English (US)	Brazil	12/15

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### Section 12. Ecological information

Persistence/degradability						
Product/ingredient name	Test	Result	Result			Inoculum
Epoxy resin (MW ≤ 700)	OECD 301F	5 % - 28 da	5 % - 28 days			-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
Epoxy resin (MW ≤ 700) xylene ethylbenzene	-		- - -		Not rea Readily Readily	/

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Epoxy resin (MW ≤ 700)	3	31	low
xylene	3.12	7.4 to 18.5	low
4-nonylphenol, branched	5.4	251.19	low
1-methoxy-2-propanol	<1	-	low
ethylbenzene	3.6	79.43	low
oxirane, mono[	3.77	-	low
(C12-14-alkyloxy)methyl]			
derivs.			
maleic anhydride	-2.78	-	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 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.

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### 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 information

Brazil	: None identified.
<b>Risk number</b>	: 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

#### **History**

Date of previous issue	: 6/7/2020
Version	: 5.02
Prepared by	: EHS

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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, 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.