# **SAFETY DATA SHEET**



#### Date of issue

14 September 2023

Version 1.01

# Section 1. Product and company identification

Product name Product code Other means of identification Product type

: SIGMAFAST 278 BASE RAL 7035CO2150 : 00324217CO

- fication : 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 Industries Colombia Ltda Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)
Email address:	:	HazComLatam@ppg.com
Emergency telephone number		Colombia: 01 8000 916012 (CISPROQUIM) + 571 288 6012 (CISPROQUIM) Ecuador: 1800-59-3005 (CISPROQUIM) Peru: 080-050-847 (CISPROQUIM)

# Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 5 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

Target organs	: Contains material which causes damage to the following organs: liver, spleen, brain
ruiget ergane	<ul> <li>Skin, bone marrow.</li> <li>Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, heart, gastrointestinal tract, cardiovascular system, upper respiratory tract, immune system, central nervous system (CNS), eye, lens or cornea.</li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 57%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 40.6%
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.</li> </ul>
Precautionary statements	Very toxic to aquatic life with long lasting effects.
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.
Response	<ul> <li>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 severa minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.</li> </ul>
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.

# 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
crystalline silica, respirable powder (>10 microns)	20 - <30	14808-60-7
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15 - <20	1675-54-3
Talc , not containing asbestiform fibres	7 - <10	14807-96-6
4-nonylphenol, branched	5 - <7	84852-15-3
titanium dioxide	5 - <7	13463-67-7
m-xylene	3 - <5	108-38-3
crystalline silica, respirable powder (<10 microns)	3 - <5	14808-60-7
1-methoxy-2-propanol	1 - <2	107-98-2
o-xylene	1 - <2	95-47-6
p-xylene	1 - <2	106-42-3
trizinc bis(orthophosphate)	0.5 - <1	7779-90-0
ethylbenzene	0.5 - <1	100-41-4
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 fir	st aid measures
Eye contact	<ul> <li>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.</li> </ul>
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 me	dical attention and special treatment needed, if necessary
Notes to physician Specific treatments	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large</li> <li>quantities have been ingested or inhaled. 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.
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## Section 4. First aid measures

Potential acute health	<u>effects</u>
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 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.

English (US)

# Section 6. Accidental release measures

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

# Section 7. Handling and storage

Precautions for safe handling	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, including any incompatibilities	Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

Control parameters
Occupational exposure limits

# Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits		
crystalline silica, respirable powder (>10 microns)	ACGIH TLV (United States, 1/2022). [Silica crystalline] TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:		
Talc , not containing asbestiform fibres	Respirable fraction ACGIH TLV (United States, 1/2022).		
titanium dioxide	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable <b>ACGIH TLV (United States, 1/2022).</b> TWA: 2.5 mg/m <sup>3</sup> 8 hours. Form: respirable		
m-xylene	fraction, finescale particles ACGIH TLV (United States, 1/2022).		
crystalline silica, respirable powder (<10 microns)	[xylene all isomers] TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2022). [Silica crystalline]		
4 month and 2 month and	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable		
1-methoxy-2-propanol	ACGIH TLV (United States, 1/2022). STEL: 369 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.		
o-xylene	ACGIH TLV (United States, 1/2022). [xylene all isomers] TWA: 20 ppm 8 hours.		
p-xylene	ACGIH TLV (United States, 1/2022). [p- xylene and mixtures containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours.		
	made to appropriate monitoring standards. Reference to cuments for methods for the determination of hazardous be required.		
controls ventilation or other en contaminants below a also need to keep gas	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive		
Environmental exposure controls : Emissions from ventil they comply with the in cases, fume scrubber	<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>		
dividual protection measures			
before eating, smokin Appropriate technique Contaminated work c contaminated clothing showers are close to	: 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.		
<b>Eye protection</b> : Chemical splash gog	gles and face shield.		
	English (US) Colombia 6/1		

Section 8.	Exposure	controls/personal	protection

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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	<ul> <li>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.</li> </ul>
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

# Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	:	Liquid.	
Color	1	Not available.	
Odor	:	Not available.	
рН	:	Not applicable.	
Melting point	:	Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	:	Closed cup: 38°C (100.4°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	:	1.67	
Solubility(ico)		Media Result	
Solubility(ies)	÷	cold water Not soluble	
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	Not available.	
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Code 00324217CO Product name STGMAFA	Date of issue         14 September 2023         Version         1.01           ST 278 BASE RAL 7035CO2150         100 <td< th=""></td<>
Section 9. Physic	al and chemical properties
Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Viscosity	: > 100 s (ISO 6mm)
Section 10. Stabi	lity 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	: Depending on conditions, decomposition products may include the following materials:
products	carbon oxides metal oxide/oxides

# Section 11. Toxicological information

### Information on toxicological effects

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Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 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	-
m-xylene	LC50 Inhalation Vapor	Rat	27124 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
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	-
o-xylene	LC50 Inhalation Vapor	Rat	27124 mg/m <sup>3</sup>	4 hours
-	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
p-xylene	LC50 Inhalation Vapor	Rat	27124 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and mists	Rat	>5.7 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
		English (US	) Colombia	8/15

# Section 11. Toxicological information

**Conclusion/Summary** : There are no data available on the mixture itself. Irritation/Corrosion **Observation** Result **Product/ingredient name Species Score Exposure** bis-[4-(2,3-epoxipropoxi) Eyes - Mild irritant 24 hours Rabbit phenyl]propane 0.4 24 hours Eyes - Redness of the Rabbit conjunctivae Skin - Edema 0.5 4 hours Rabbit Skin - Erythema/Eschar 4 hours Rabbit 0.8 4 hours Skin - Mild irritant Rabbit 4-nonylphenol, branched Skin - Erythema/Eschar 4 Rabbit Skin - Moderate irritant 24 hours 500 m-xylene Rabbit mg **Conclusion/Summary** There are no data available on the mixture itself. Skin **Eyes** There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. **Sensitization Product/ingredient name Route of** Result **Species** exposure bis-[4-(2,3-epoxipropoxi) skin Mouse Sensitizing phenyl]propane **Conclusion/Summary** Skin : There are no data available on the mixture itself. : There are no data available on the mixture itself. Respiratory **Mutagenicity** Not available. : There are no data available on the mixture itself. **Conclusion/Summary Carcinogenicity** Not available. **Conclusion/Summary** : There are no data available on the mixture itself. **Classification Product/ingredient name OSHA** NTP IARC crystalline silica, respirable 1 Known to be a human carcinogen. powder (>10 microns) bis-[4-(2,3-epoxipropoxi) 3 phenyl]propane titanium dioxide 2B m-xylene 3 crystalline silica, respirable 1 Known to be a human carcinogen. powder (<10 microns) o-xylene 3 3 p-xylene \_ 2B ethylbenzene \_

Carcinogen Classification code:

# Section 11. Toxicological information

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.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
m-xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects
o-xylene	Category 3	-	Respiratory tract irritation
p-xylene	Category 3	-	Respiratory tract irritation

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

Name	Category	Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs
maleic anhydride	Category 1	inhalation	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, gastrointestinal tract, cardiovascular system, upper respiratory tract, immune system, central nervous system (CNS), eye, lens or cornea.

#### Aspiration hazard

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

#### Information on the likely : Not available. routes of exposure Potential acute health effects

English (US) Colombia

Code 0032421 Product name		Date of issue 78 BASE RAL 7035CO2150	14 September 2023	Version	1.01
Section 11	Toxicol	ogical information			
Eye contact	:	Causes serious eye damage.			
Inhalation	:	No known significant effects or crit	ical hazards.		
Skin contact	:	Causes severe burns. May be har May cause an allergic skin reaction		Defatting to tl	he skin.
Ingestion	:	Corrosive to the digestive tract. Ca	auses burns.		
		pain watering redness			
Eye contact		-	-		
		reduced fetal weight increase in fetal deaths skeletal malformations			
Skin contact	:	Adverse symptoms may include the pain or irritation redness dryness cracking blistering may occur reduced fetal weight	e following:		

 Ingestion
 skeletal malformations

 Ingestion
 Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

increase in fetal deaths

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

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 exposu 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 repea exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splash	clusion/Summary	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
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# Section 11. Toxicological information

delayed and immediate effects and also chronic effects of components from shortterm 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.
<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	: 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)
GMAFAST 278 BASE RAL 7035CO2150	9083.0	3982.1	N/A	48.9	N/A
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
m-xylene	3523	1100	N/A	11	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
o-xylene	3523	1100	N/A	11	N/A
p-xylene	3523	1100	N/A	11	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
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
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
	Chronic NOEC 0.026 mg/l	Fish	30 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
m-xylene o-xylene p-xylene ethylbenzene	OECD 301F OECD 301F OECD 301F -	94 % - Rea 90 % - Rea	dily - 28 days dily - 28 days dily - 28 days dily - 28 days dily - 10 days	- - - -		- - -
Product/ingredient name	Aquatic half-life		Photolysis		Biode	gradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane m-xylene o-xylene p-xylene ethylbenzene	- - - -		- - - -		Not rea Readil Readil Readil Readil	y y y

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
4-nonylphenol, branched	5.4	251.19	Low
m-xylene	3.2	14.79	Low
1-methoxy-2-propanol	<1	-	Low
o-xylene	3.12	14.13	Low
p-xylene	3.15	14.79	Low
ethylbenzene	3.6	79.43	Low
maleic anhydride	-2.78	-	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

1.01

## Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

			IMDC	
	UN	Brazil (ANTT)	IMDG	IATA
UN number	UN3470	UN3470	UN3470	UN3470
UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
Transport hazard class(es)	8 (3)	8 (3)	8 (3)	8 (3)
Packing group	II	II	II	II
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(bis-[4- (2,3-epoxipropoxi) phenyl]propane, 4-nonylphenol, branched)	Not applicable.

#### Additional information

UN	: None identified.
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.

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## Section 14. Transport information

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	: 9/12/2023
Version	: 1.01 EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> <li>UN = United Nations</li> </ul>
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.