# SAFETY DATA SHEET



#### Date of issue 13 December 2024

Version 2

## Section 1. Product and company identification

Product name	1
Product code	:
Other means of identification	1
Product type	:

- SIGMAFAST 278 BASE RAL 7035 000001183260
- 00437570; 00453938; 00469781
- 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	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	AQUATIC HAZARD (ACUTE) - Category 2
	AQUATIC HAZARD (LONG-TERM) - Category 2
Target organs	: Contains material which causes damage to the following organs: blood, liver, heart, brain.
	Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, the reproductive system, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

English (US)	Brazil	1,
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Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 43.2%

GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	<ul> <li>Mammable liquid and vapor.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause respiratory irritation.</li> <li>Suspected of causing cancer.</li> <li>May damage fertility or the unborn child.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>
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. Avoid breathing vapor. Wash thoroughly after handling.
Response	:	Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	1	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not	:	Prolonged or repeated contact may dry skin and cause irritation.

result in classification

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: 00437570; 00453938; 00469781

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

**CAS number** : Not applicable.

Brazil

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## Section 3. Composition/information on ingredients

Ingredient name	%	CAS number	
alc , not containing asbestiform fibres	15 - <20	14807-96-6	
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15 - <20	1675-54-3	
xylene	5 - <7	1330-20-7	
titanium dioxide	5 - <7	13463-67-7	
benzyl alcohol	2 - <3	100-51-6	
Phenol, styrenated	1 - <2	61788-44-1	
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	

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>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</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 medical 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.	
Potential acute health effect	t <mark>s</mark>	
Eye contact Inhalation Skin contact Ingestion	<ul> <li>Causes serious eye irritation.</li> <li>May cause respiratory irritation.</li> <li>Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.</li> <li>No known significant effects or critical hazards.</li> </ul>	

#### See toxicological information (Section 11)

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# 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 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for co	<u>on</u>	tainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools

: 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.

### Section 6. Accidental release measures

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	Fut 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 ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, : including any incompatibilities	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
	ACGIH TLV (United States, 7/2023) TWA 8 hours: 2 mg/m <sup>3</sup> . Form: Respirable fraction.
xylene	Ministry of Labor and Employment (Brazil, 11/2001) [Xylenes (o-, m-, p- isomers)] TWA 8 hours: 78 ppm. TWA 8 hours: 340 mg/m <sup>3</sup> .
titanium dioxide	<b>ACGIH TLV (United States, 7/2023)</b> TWA 8 hours: 2.5 mg/m <sup>3</sup> . Form: respirable fraction, finescale particles.
	English (US) Brazil 5/15

Section 8. Exposu	re	controls/personal pro	tection
1-methoxy-2-propanol			ACGIH TLV (United States, 7/2023) TWA 8 hours: 50 ppm. TWA 8 hours: 184 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 369 mg/m <sup>3</sup> .
ethylbenzene			Ministry of Labor and Employment (Brazil, 11/2001) TWA 8 hours: 78 ppm. TWA 8 hours: 340 mg/m <sup>3</sup> .
Recommended monitoring procedures	:		riate monitoring standards. Reference to nods for the determination of hazardous
Appropriate engineering controls	:	contaminants below any recommende	ls to keep worker exposure to airborne ed or statutory limits. The engineering controls concentrations below any lower explosive
Environmental exposure controls	:	Emissions from ventilation or work pro	ocess equipment should be checked to ensure environmental protection legislation. In some neering modifications to the process
ndividual protection measur	<u>'es</u>		
Hygiene measures	:	before eating, smoking and using the Appropriate techniques should be use Contaminated work clothing should no	bughly after handling chemical products, lavatory and at the end of the working period. ed to remove potentially contaminated clothing. but be allowed out of the workplace. Wash Ensure that eyewash stations and safety ocation.
Eye protection Skin protection	:	Chemical splash goggles.	
Hand protection	:	be worn at all times when handling ch this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break	s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of the of the gloves cannot be accurately
Gloves	4	butyl rubber	
Body protection	:	being performed and the risks involve	
Other skin protection	:	Appropriate footwear and any addition	nal skin protection measures should be formed and the risks involved and should be

English (US)

Brazil

# Section 8. Exposure controls/personal protection

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	1	Liquid.		
Color	4	Gray.		
Odor	1	Aromatic. [Slight]		
рН	1	Not applicable.		
Melting point	1	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	:	1.7		
Colubility/icc)		Media Result		
Solubility(ies)	ľ	cold water Not soluble		
Partition coefficient: n- octanol/water	:	Not applicable.		
Auto-ignition temperature	:	Not available.		
Decomposition temperature	:	Not available.		
Viscosity	:	Dynamic (room temperature): Not available. Kinematic (room temperature): >400 mm²/s (>400 cSt) Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)		
Viscosity	:	> 100 s (ISO 6mm)		

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.

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# Section 10. Stability and reactivity

Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

# Section 11. Toxicological information

#### Information on toxicological effects

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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 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	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
-	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Phenol, styrenated	LD50 Dermal	Rabbit	>5010 mg/kg	-
-	LD50 Oral	Rat	3550 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	-
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	-
oxirane, mono[	LD50 Dermal	Rabbit	>4000 mg/kg	-
(C12-14-alkyloxy)methyl]				
derivs.				
	LD50 Oral	Rat	17100 mg/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and mists	Rat	>5.7 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
ofs-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-	
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-	
	Skin - Edema	Rabbit	0.5	4 hours	-	
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-	
	Skin - Mild irritant	Rabbit	-	4 hours	-	
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-	
				mg		
Conclusion/Summary	÷	·	·			
Skin	: There are no data available on the mixture itself.					
Eyes	: There are no data available on the mixture itself.					

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### Section 11. Toxicological information

Respiratory Sensitization : There are no data available on the mixture itself.

Product/ingredient name	Route of exposure	S	pecies	Result
pis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	N	louse	Sensitizing
Phenol, styrenated	skin	N	louse	Sensitizing
Conclusion/Summary	•			
Skin	: There ar	e no data	available on the	mixture itself.
Respiratory	: There ar	e no data	available on the	mixture itself.
<u>Autagenicity</u>				
Not available.				
Conclusion/Summary	: There ar	e no data	available on the	mixture itself.
Carcinogenicity				
Not available.				
Conclusion/Summary	• There ar	e no data	available on the	mixture itself
<u>Classification</u>	. more a			
Product/ingredient name	OSHA	IARC	NTP	
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	3	-	

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

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#### **Reproductive toxicity**

Not available.

xylene

titanium dioxide

ethylbenzene

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

3 2B

2B

#### Teratogenicity

Not available.

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

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

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

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

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## Section 11. Toxicological information

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

 Target organs
 : Contains material which causes damage to the following organs: blood, liver, heart, brain.

 Contains material which may cause damage to the following organs: kidneys, lungs,

the nervous system, the reproductive system, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

#### Aspiration hazard

Name	Result
benzyl alcohol	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effects	2	
Eye contact	1	Causes serious eye irritation.
Inhalation	1	May cause respiratory irritation.
Skin contact	:	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Brazil

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# Section 11. Toxicological information

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. 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 Long term exposure	: There are no data available on the mixture itself.
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health effe	ects
Not available.	
General	: 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	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility or the unborn child.

### **Numerical measures of toxicity**

Acute toxicity estimates

Brazil

**Species** 

Daphnia

Daphnia

Daphnia

Daphnia

Fish

Daphnia - daphnia magna

Daphnia - Daphnia magna

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**Exposure** 

48 hours

21 days

48 hours

48 hours

48 hours

96 hours

48 hours

# Section 11. Toxicological information

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 7035	23523.2	13112.5	N/A	110.4	14.2
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
benzyl alcohol	1200	2500	N/A	N/A	N/A
Phenol, styrenated	3550	N/A	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	17100	2500	N/A	N/A	N/A

#### Other information

: Not available.

# Section 12. Ecological information

#### **Ecotoxicity Product/ingredient name** Result bis-[4-(2,3-epoxipropoxi) Acute LC50 1.8 mg/l Fresh water phenyl]propane Chronic NOEC 0.3 mg/l titanium dioxide Acute LC50 >100 mg/l Fresh water Phenol, styrenated Acute EC50 3.8 mg/l 1-methoxy-2-propanol Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water Acute EC50 1.8 mg/l Fresh water ethylbenzene

oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	Chronic NOEC 1 mg/l Fresh water EC50 844 mg/l	Daphnia - <i>Ceriodaphnia dubia</i> Algae	- 72 hours	
	EC50 7.2 mg/l	Daphnia	48 hours	
	LC50 >1.8 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	

#### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Phenol, styrenated	OECD 301F	7 % - Not readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-
oxirane, mono[	OECD 301F	87 % - Readily - 28 days	-	-
(C12-14-alkyloxy)methyl]	Ready			
derivs.	Biodegradability -			
	Manometric			
	Respirometry			
	Test			

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## Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bís-[4-(2,3-epoxipropoxi) phenyl]propane	-	-	Not readily
xylene	-	-	Readily
benzyl alcohol Phenol, styrenated	-	-	Readily Not readily
ethylbenzene oxirane, mono[	-	-	Readily Readily
(C12-14-alkyloxy)methyl] derivs.			rectany

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential	
xylene benzyl alcohol 1-methoxy-2-propanol ethylbenzene oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	3.12 0.87 <1 3.6 3.77	7.4 to 18.5 - - 79.43 160 to 263	Low Low Low 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 container. Do not cut, weld or grind used containers unless they have been

## Section 14. Transport information

	Brazil (ANTT)	IMDG	ΙΑΤΑ	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class(es)	3	3	3	
Packing group		III	III	
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.	

#### Additional information

Brazil Risk number IMDG	<ul> <li>None identified.</li> <li>30</li> <li>This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.</li> </ul>
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precautio	<b>ns for user</b> : <b>Transport within user's premises:</b> 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 to IMO instrumen	according : Not applicable. ts

# 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

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Prepared by	: EHS

English (	US)
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Brazil

### 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
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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.