SAFETY DATA SHEET



Date of issue 17 April 2024

Version 1.02

Section 1. Product and company identification

Product name Product code Other means of identification Product type : SIGMAPRIME 700 HARDENER

- : 000001074765
- : 00317124; 00471886
- : Liquid.

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

Identified uses

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

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

Section 2. Hazards identification

Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
Target organs	 irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, heart, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

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Section	2.	Hazards	identification

Percentage of the mixture consisting of ingredient(s) of unknown acute of	oral toxicity:
17.5%	

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 17.5%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 63.5%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

	ercentage of the mixture consisting of ingredient(s) of unknown hazards to the quatic environment: 17.5%	е
GHS label elements		
Hazard pictograms		
Signal word	anger	
Hazard statements	ammable liquid and vapor. ay be harmful if swallowed or in contact with skin. auses severe skin burns and eye damage. ay cause an allergic skin reaction. armful if inhaled. ay cause respiratory irritation. uspected of causing cancer. armful to aquatic life. oxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	btain special instructions before use. Wear protective gloves, protective cloth and eye or face protection. Keep away from heat, hot surfaces, sparks, open ames and other ignition sources. No smoking. Use explosion-proof electrical, entilating or lighting equipment. Use non-sparking tools. Take action to preve atic discharges. Avoid release to the environment. Avoid breathing vapor.	,
Response	ollect spillage. IF exposed or concerned: Get medical advice or attention. IF IHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce omiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing inse skin with water. Immediately call a POISON CENTER or doctor. Wash ontaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or octor if you feel unwell. Wash with plenty of water. If skin irritation or rash oc et medical advice or attention. IF IN EYES: Rinse cautiously with water for se inutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.	e]. - :curs:
Storage	ore in a well-ventilated place. Keep container tightly closed. Keep cool.	
Disposal	ispose of contents and container in accordance with all local, regional, nation nd international regulations.	al
Other hazards which do not result in classification	auses digestive tract burns. Prolonged or repeated contact may dry skin and ause irritation.	I

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

CAS number

- : Mixture
- : 00317124; 00471886

CAS number/other identifiers

: Not applicable.

Ingredient name	%	CAS number
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	20 - <30	68082-29-1
xylene	15 - <20	1330-20-7
Phenol, methylstyrenated	12.5 - <15	68512-30-1
1-methoxy-2-propanol	7 - <10	107-98-2
2-methylpropan-1-ol	7 - <10	78-83-1
2,4,6-tris(dimethylaminomethyl)phenol	3 - <5	90-72-2
ethylbenzene	2 - <3	100-41-4
3,6-diazaoctanethylenediamin	1 - <2	112-24-3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	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	ica	l attention and special treatment needed, if necessary
Notes to physician Specific treatments		In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Potential acute health effects	5	
Eye contact	:	Causes serious eye damage.
Inhalation	1	Harmful if inhaled. May cause respiratory irritation.

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Section 4. First aid measures

Skin contact	1	Causes severe burns. May be harmful in contact with skin. Defatting to the skin.
		May cause an allergic skin reaction.
Ingestion	1	May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides
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, protect	ctiv	ve 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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Sectio	on 6. Accider	ntal release	e measures			
Small spill	I :	and explosion-p Alternatively, or	proof equipment. E if water-insoluble,	ntainers from spill area. I bilute with water and mop absorb with an inert dry r ner. Dispose of via a lice	up if water-solu naterial and pla	ıble. ce in an
Large spil		and explosion-p sewers, water o effluent treatme combustible, at and place in co Dispose of via a material may po	proof equipment. A courses, basements ent plant or proceed osorbent material e ntainer for disposa a licensed waste di ose the same haza	ntainers from spill area. I spproach release from up s or confined areas. Was l as follows. Contain and .g. sand, earth, vermiculi according to local regula sposal contractor. Conta rd as the spilled product. d Section 13 for waste di	wind. Prevent e sh spillages into l collect spillage te or diatomace ations (see Sect minated absorb Note: see Sect	entry into an with non- ous earth ion 13). pent

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. 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>

Section 8. Exposure controls/personal protection

Ingredient name			Exposure limits	
xylene			Ministry of Labor and Employment (Brazil 11/2001). [Xylenes (o-, m-, p- isomers)] TWA: 340 mg/m ³ 8 hours. TWA: 78 ppm 8 hours.	
1-methoxy-2-propanol			ACGIH TLV (United States, 1/2023). STEL: 369 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.	
2-methylpropan-1-ol			Ministry of Labor and Employment (Brazi 11/2001). TWA: 115 mg/m ³ 8 hours.	
ethylbenzene			TWA: 40 ppm 8 hours. Ministry of Labor and Employment (Brazi 11/2001). TWA: 340 mg/m ³ 8 hours. TWA: 78 ppm 8 hours.	
Recommended monitoring procedures	:		iate monitoring standards. Reference to nods for the determination of hazardous	
contaminants below any recommend			Is to keep worker exposure to airborne d or statutory limits. The engineering control concentrations below any lower explosive	
Environmental exposure controls	:	Emissions from ventilation or work pro	bcess equipment should be checked to ensur- 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 contaminated clothing before reusing. showers are close to the workstation I		
Eye protection <u>Skin protection</u>				
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	complying with an approved standard should emical products if a risk assessment indicate 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 e of the gloves cannot be accurately	
		estimated.		

Section 8. Exposure controls/personal protection

	• •
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

<u>Appearance</u>					
Physical state	1	Liquid.			
Color	4	Colorless.			
Odor	4	Aromatic.			
рН	1	Not applicable.			
Melting point	1	Not available.			
Boiling point	:	>37.78°C (>100°F)			
Flash point	:	Closed cup: 30°C (86°F)			
Evaporation rate	1	Not available.			
Flammability (solid, gas)	:	Not available.			
Lower and upper explosive (flammable) limits		lot available.			
Vapor pressure	:	Not available.			
Vapor density	:	Not available.			
Relative density	:	0.96			
Solubility(ies)		Media Result			
		cold water Not soluble			
Partition coefficient: n- octanol/water	:	Not applicable.			
Auto-ignition temperature : Not available.		Not available.			
Decomposition temperature	ition temperature : Not available.				
Viscosity		Kinematic (room temperature): >400 mm²/s (>400 cSt) Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)			
Viscosity		60 - 100 s (ISO 6mm)			

Section 10. Stability and reactivity

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

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 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	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
2,4,6-tris	LD50 Dermal	Rabbit	1.28 g/kg	-
(dimethylaminomethyl) ohenol				
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 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	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
	LD50 Oral	Rat	1716 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

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Result		Species	Score	Exposure	Observation
Eyes - Severe	e irritant	Rabbit	-	-	-
Skin - Irritant		Human	-	_	-
Skin - Modera	te irritan	t Rabbit	-	24 hours 500 ma	-
Skin - Visible	necrosis	Rabbit	-	4 hours	7 days
: There are n	no data a	vailable on the mix	xture itself.		
: There are n	no data a	vailable on the mi	xture itself.		
: There are n	no data a	vailable on the mix	xture itself.		
Route of exposure	Spe	cies	Re	sult	
skin skin				-	
Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Not available.					
Conclusion/Summary : There are no data available on the mixture itself. Classification					
OSHA IA	ARC	NTP			
- 3		-			
	Eyes - Severe Skin - Irritant Skin - Modera Skin - Visible : There are r : There are r : There are r skin : There are r : There are r : There are r : There are r : There are r	Eyes - Severe irritant Skin - Irritant Skin - Moderate irritant Skin - Visible necrosis : There are no data ar skin Mou skin Guin : There are no data ar : There are no data ar	Eyes - Severe irritant Rabbit Skin - Irritant Skin - Moderate irritant Human Rabbit Skin - Visible necrosis Rabbit : There are no data available on the minities There are no data available on the minities : There are no data available on the minities There are no data available on the minities Route of exposure skin Species Mouse : There are no data available on the minities There are no data available on the minities : There are no data available on the minities There are no data available on the minities : There are no data available on the minities There are no data available on the minities : There are no data available on the minities There are no data available on the minities : There are no data available on the minities There are no data available on the minities : There are no data available on the minities There are no data available on the minities : There are no data available on the minities There are no data available on the minities : There are no data available on the minities Reverse available on the minities : There are no data available on the minities Reverse available on the minities : There are no data available on the minities Reverse available on the minities : There are no data available	Eyes - Severe irritant Rabbit - Skin - Irritant Human - Skin - Moderate irritant Rabbit - Skin - Visible necrosis Rabbit - : There are no data available on the mixture itself. - : There are no data available on the mixture itself. - : There are no data available on the mixture itself. - Route of exposure Species Re skin Guinea pig Se : There are no data available on the mixture itself. Se : There are no data available on the mixture itself. Se skin Guinea pig Se : There are no data available on the mixture itself. Se : There are no data available on the mixture itself. There are no data available on the mixture itself. : There are no data available on the mixture itself. Se : There are no data available on the mixture itself. Se : There are no data available on the mixture itself. Se : There are no data available on the mixture itself. Se : There are no data available on the mixture itself. Se : There are no data available on the mixture itself. Se </td <td>Eyes - Severe irritant Rabbit - Skin - Irritant Human - Skin - Moderate irritant Rabbit - Skin - Visible necrosis Rabbit - 24 hours 500 mg Skin - Visible necrosis Rabbit - 24 hours - 4 hours 25 There are no data available on the mixture itself. - 26 There are no data available on the mixture itself. - 27 There are no data available on the mixture itself. - 28 There are no data available on the mixture itself. - 29 Skin Mouse Sensitizing skin Guinea pig Sensitizing 29 There are no data available on the mixture itself. - 20 There are no data available on the mixture itself. - 20 There are no data available on the mixture itself. - 20 There are no data available on the mixture itself. - 21 There are no data available on the mixture itself. - 22 There are no data available on the mixture itself. - 30 There are no data available on the mixture itself. - 31 There are no data available on the mixture itself.</td>	Eyes - Severe irritant Rabbit - Skin - Irritant Human - Skin - Moderate irritant Rabbit - Skin - Visible necrosis Rabbit - 24 hours 500 mg Skin - Visible necrosis Rabbit - 24 hours - 4 hours 25 There are no data available on the mixture itself. - 26 There are no data available on the mixture itself. - 27 There are no data available on the mixture itself. - 28 There are no data available on the mixture itself. - 29 Skin Mouse Sensitizing skin Guinea pig Sensitizing 29 There are no data available on the mixture itself. - 20 There are no data available on the mixture itself. - 20 There are no data available on the mixture itself. - 20 There are no data available on the mixture itself. - 21 There are no data available on the mixture itself. - 22 There are no data available on the mixture itself. - 30 There are no data available on the mixture itself. - 31 There are no data available on the mixture itself.

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.

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Section 11. Toxicological information

Conclusion/Summary

: There are no data available on the mixture itself.

Teratogenicity

Not available.

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

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Target organs

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

Aspiration hazard

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

Information on the likely routes of exposure	1	Not available.
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	:	Harmful if inhaled. May cause respiratory irritation.
Skin contact	1	Causes severe burns. May be harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	;	May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.
Symptoms related to the phys		cal, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: pain watering redness

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Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	 Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

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

Conclusion/Summary	Phere are no data available on the mixture itself. 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. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.
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.
Long term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	<u>ects</u>
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	: No known significant effects or critical hazards.

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Section 11. Toxicological information

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)
SIGMAPRIME 700 HARDENER	2987.4	2504.6	N/A	22.2	2.9
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	2500	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
Phenol, methylstyrenated	2500	2500	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
2,4,6-tris(dimethylaminomethyl)phenol ethylbenzene	1200 3500	1280 17800	N/A N/A	N/A 17.8	N/A 1.5
3,6-diazaoctanethylenediamin	1716	1465	N/A	N/A	N/A

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris	Acute LC50 175 mg/l	Fish	96 hours
(dimethylaminomethyl)phenol			
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-
Product/ingredient name	Aquatic half-life	Photolysis	В	iodegradability
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine xylene ethylbenzene	- - -	- - -	R	ot readily leadily leadily

English (US) South America

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Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
1-methoxy-2-propanol	<1	-	Low
2-methylpropan-1-ol	1	-	Low
2,4,6-tris	0.219	-	Low
(dimethylaminomethyl)phenol			
ethylbenzene	3.6	79.43	Low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	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 cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and
	cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ		
UN number	UN3469	UN3469	UN3469	UN3469		
UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE		
Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)		
Packing group		III				
·	English (US) South America 13/15					

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Section 14. Transport information

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Environmental	Yes. The	Yes. The	Yes.	Yes. The
hazards	environmentally	environmentally		environmentally
	hazardous substance	hazardous substance		hazardous substance
	mark is not required.	mark is not required.		mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Polyamide)	Not applicable.

Additional information

UN	: None identified.
Brazil	: None identified.
Risk number	: 38
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precautio	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 to IMO instrumen	according : Not applicable. ts

Section 15. Regulatory information

Safety, health and : 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 Version	2/19/2024 1.02 EHS
Key to abbreviations	ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations

Section 16. Other information

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.