SAFETY DATA SHEET



Date of issue

2 May 2024

Version 3.02

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

: SIGMAPRIME 700 HARDENER

- : 00317124
- on : 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 CHILE S.A. Puerto Madero 9710, Of. 23 Pudahuel - Chile Teléfono: +56 (2) 2571 0750 Fax: +56 (2) 2571 0752
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: +56 (2) 2777 1994 (RITA CHILE)

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 irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 2

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Section 2	Hazards	identification
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Section 2. Hazard	
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.
	Percentage of the mixture consisting of ingredient(s) of unknown acute 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 aquatic environment: 17.5%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. May be harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer.
	Harmful to aquatic life. Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Avoid breathing vapor.
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

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Section 2. Hazards identification

Other hazards which do not result in classification	1	Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.
Classification according to NCh382:	1	3 (8)
Label according to NCh2190:	:	

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Section 3. Composition/information on ingredients

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

CAS number/other identifiers

CAS number : 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 medical attention and special treatment needed, if necessary

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Section 4. First ai	d measu	res			
Notes to physician Specific treatments	: The expos	inhalation of decompos sed person may need to c treatment.			
Protection of first-aiders	is suspect mask or s providing	shall be taken involving ted that fumes are still p elf-contained breathing aid to give mouth-to-mo y with water before remo	resent, the rescuer sho apparatus. It may be d outh resuscitation. Was	uld wear an app angerous to the h contaminated	ropriate person
Potential acute health effect	t <u>s</u>				
Eye contact	: Causes se	erious eye damage.			
Inhalation	: Harmful if	inhaled. May cause rea	spiratory irritation.		
Skin contact	: Causes se	evere burns. May be ha	armful in contact with sk	in. Defatting to	the skin.

: May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.

May cause an allergic skin reaction.

See toxicological information (Section 11)

Ingestion

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,	protective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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Section 6. Accid	dental release	e measures			
For emergency responde	information in S		e and unsuitable materi		
Environmental precaution	drains and sewe environmental p May be harmful	ers. Inform the rele ollution (sewers, w to the environment	and runoff and contact v vant authorities if the pr aterways, soil or air). N : if released in large qua	oduct has caused ater polluting ma	d iterial.
Methods and materials for	or containment and cl	<u>eaning up</u>			
Small spill	and explosion-p Alternatively, or	roof equipment. D if water-insoluble, a	tainers from spill area. ilute with water and mop absorb with an inert dry er. Dispose of via a lice	o up if water-solul material and plac	ole. e in an
Large spill	and explosion-p sewers, water co effluent treatme combustible, ab and place in cor Dispose of via a material may po	roof equipment. A ourses, basements nt plant or proceed sorbent material e. ntainer for disposal licensed waste dis se the same hazar	tainers from spill area. pproach release from up or confined areas. Wa as follows. Contain and g. sand, earth, vermicul according to local regul posal contractor. Conta d as the spilled product. d Section 13 for waste d	owind. Prevent e sh spillages into d collect spillage ite or diatomaceo ations (see Section aminated absorbe Note: see Section	ntry into an with non- ous earth on 13). ent

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.

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Section 8. Exposure controls/personal protection

Control parameters

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✓atty acids, C18-unsatd., dir	ners, oligomeric reaction products with	Not regulated.
tall-oil fatty acids and triethyle		-
xileno		Ministry of Health (Chile, 2/2018). [Xylene] STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 380 mg/m ³ 8 hours. TWA: 87 ppm 8 hours.
Phenol, methylstyrenated 1-Metoxi-2-propanol		Not regulated. 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-Metilpropan-1-ol		Ministry of Health (Chile, 2/2018). TWA: 133 mg/m³ 8 hours. TWA: 44 ppm 8 hours.
2,4,6-Tris(dimetilaminometil) Etilbenceno	fenol	Not regulated. Ministry of Health (Chile, 2/2018). STEL: 543 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 380 mg/m ³ 8 hours. TWA: 87 ppm 8 hours.
3,6-Diazaoctanoetilendiamina	a	Not regulated.
Recommended monitoring procedures		priate monitoring standards. Reference to ethods for the determination of hazardous
Appropriate engineering controls	ventilation or other engineering cont contaminants below any recommend	Use process enclosures, local exhaust rols to keep worker exposure to airborne ded or statutory limits. The engineering controls t concentrations below any lower explosive on equipment.
Environmental exposure controls	they comply with the requirements o	process equipment should be checked to ensure of environmental protection legislation. In some gineering modifications to the process ace emissions to acceptable levels.
Individual protection measur	<u>res</u>	
Hygiene measures	before eating, smoking and using th Appropriate techniques should be us Contaminated work clothing should	roughly after handling chemical products, e lavatory and at the end of the working period. sed to remove potentially contaminated clothing. not be allowed out of the workplace. Wash g. Ensure that eyewash stations and safety n location.
Eye protection Skin protection	: Chemical splash goggles and face s	

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Section 8. Exposure controls/personal 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	: nitrile neoprene
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

Appearance

<u>Appearance</u>					
Physical state	:	Liquid.			
Color	:	Colorless.			
Odor	:	Aromatic.			
рН	1	Not applicable.			
Melting point	:	Not available.	lot available.		
Boiling point	:	>37.78°C (>100°F)			
Flash point	:	Closed cup: 30°C (86°F)			
Evaporation rate	:	Not available.			
Flammability (solid, gas)	:	Not available.			
Lower and upper explosive (flammable) limits	1	Not available.			
Vapor pressure	:	Not available.			
Vapor density	:	Not available.			
Relative density	:	0.96			
Solubility(ies)		Media	Result		
Colubility (100)		old water	Not soluble		
Partition coefficient: n- octanol/water	:	Not applicable.			
Auto-ignition temperature	:	Not available.			
Decomposition temperature	:	Not available.			

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Section 9. Phys	ical and che	mical proper	rties	
Viscosity		oom temperature): >4 l0°C (104°F)): >21 mi	400 mm²/s (>400 cSt) m²/s (>21 cSt)	
Viscosity	: 60 - 100 s (l	SO 6mm)		
Section 10. Sta	bility and rea	activity		
Reactivity	: No specific t	est data related to rea	activity available for this	s product or its ingredients.
Chemical stability	: The product	is stable.		
Possibility of hazardous reactions	: Under norm	al conditions of storaç	ge and use, hazardous	reactions will not occur.
Conditions to avoid	: When expos products.	sed to high temperatu	res may produce hazar	dous decomposition
Incompatible materials		rom the following ma ents, strong alkalis, st	terials to prevent strong trong acids.	exothermic reactions:
Hazardous decomposition products		on conditions, decom es nitrogen oxides	position products may i	nclude the following materia

Section 11. Toxicological information

Information on toxicological effects

Acı	Jte	tox	icitv
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Product/ingredient name	Result	Species	Dose	Exposure
atty acids, C18-unsatd.,	LD50 Dermal	Rat	>2000 mg/kg	-
dimers, oligomeric reaction				
products with tall-oil fatty				
acids and				
triethylenetetramine				
	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)				
phenol		_		
	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	-
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ode 00317124 roduct name SIGMAPRIN	IE 700 HARDE		Date of is	ssue	2 May 2	2024	Vers	ion 3.02
Section 11. Toxico	logical	info	rmat	ion				
Conclusion/Summary				ble on the mi	xture itsel	lf.		
rritation/Corrosion								
Product/ingredient name	Result			Species	Score	e I	Exposure	Observation
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Sev		nt	Rabbit	-	-		-
xylene	Skin - Irrita Skin - Mod		tant	Human Rabbit	-		24 hours 500	-
2,4,6-tris (dimethylaminomethyl) phenol	Skin - Visib	le necro	sis	Rabbit	-		ng hours	7 days
Conclusion/Summary						÷		
Skin	: There ar	e no dat	a availa	ble on the mi	xture itsel	lf.		
Eyes Respiratory				ble on the mi ble on the mi				
Sensitization								
Product/ingredient name	Route of exposure	:	Species	5		Result		
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6-diazaoctanethylenediamin	skin		Mouse Guinea	pig		Sensiti Sensiti	c .	
Conclusion/Summary		1						
Skin Respiratory <u>Mutagenicity</u> Not available.				ble on the mi ble on the mi				
Conclusion/Summary Carcinogenicity Not available.	: There ar	e no dat	a availa	ble on the mi	ixture itsel	lf.		
Conclusion/Summary <u>Classification</u>	: There ar	e no dat	a availa	ble on the mi	xture itsel	lf.		
Product/ingredient name	OSHA	IARC	NTP					
vylene ethylbenzene	-	3 2B	-					

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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Section 11. Toxicological information

Reproductive toxicity

Not available.

Conclusion/Summary

: There are no data available on the mixture itself.

Teratogenicity

Not available.

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

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
xylene 1-methoxy-2-propanol 2-methylpropan-1-ol	Category 3 Category 3 Category 3		Respiratory tract irritation Narcotic effects Respiratory tract
	Category 3		irritation 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
2-methylpropan-1-ol	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	2		
Eye contact	:	Causes serious eye damage.	
Inhalation	:	Harmful if inhaled. May cause respiratory irritation.	
Skin contact	:	Causes severe burns. May be harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.	
Ingestion	:	May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.	
Symptoms related to the phy	<u>/si</u>	cal, chemical and toxicological characteristics	
Eye contact	:	Adverse symptoms may include the following: pain watering redness	
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Section 11. Toxicological information

Inhalation	 Adverse symptoms may include the following: 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.

Chile

English (US)

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)	
GMAPRIME 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	1200	1280	N/A	N/A	N/A	
ethylbenzene	3500	17800	N/A	17.8	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
Atty 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)pheno			
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 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biode	gradability
✓atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine xylene ethylbenzene	-	- - -			Not rea Readil Readil	y
	·		English (L	JS) Chi	le	12/15

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Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	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 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	111	111	111	111
English (US) Chile				13/1

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Product nam	e	SIGMAPRIME 700 HARDENER				

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 \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precautio	ons for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk to IMO instrumen	according : Not applicable.

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product	 NCh 382 - Hazardous substances - General terminology and classification. NCh 2245 - Material Safety Data Sheet for Chemicals - Contents and section order. D. S. 148 - Sanitary regulations on hazardous waste management. D. S. 298 - Transport of dangerous goods by road. D. S. 374 - Limit for Lead content in paints.
	D. S. 594 - Regulation on basic sanitary and environmental conditions at workplace.

Section 16. Other information

<u>History</u>	
Date of previous issue Version	: 11/11/2021 : 3.02
Key to abbreviations	 EHS 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

English (US)	Chile	14/15

Date of issue

Section 16. Other information

References

by Rail UN = United Nations : ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

English (US)	Chile	15/15