SAFETY DATA SHEET



Date of issue 9 October 2024

Version 1.03

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

Section 2. Hazards identification

Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (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 3 AQUATIC HAZARD (LONG-TERM) - Category 2
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Section 2. Hazards	s identification
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. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. 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.
Other hazards which do not result in classification	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture
Other means of
identification

: Mixture

: 00317124; 00471886

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 med	lica	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 effect	<u>s</u>	
Eye contact	1	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

Code Product nam	000001074765 e SIGMAPRIM	IE 700 HARDENER	Date of issue	9 October 2024	Version	1.03
Sectio	n 6. Accider	ntal release	e measures			
Small spill	:	and explosion-p Alternatively, or	proof equipment. D	tainers from spill area. U ilute with water and mop o absorb with an inert dry m er. Dispose of via a licen	up if water-solu aterial and plac	ible. ce in an
Large spill	:	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 ant plant or proceed psorbent material e. ntainer for disposal a licensed waste dis pse the same hazar	tainers from spill area. U pproach release from upw or confined areas. Wash as follows. Contain and g. sand, earth, vermiculite according to local regulat sposal contractor. Contar d as the spilled product. d Section 13 for waste dis	vind. Prevent e h spillages into collect spillage e or diatomaced ions (see Secti ninated absorb Note: see Sect	entry into an with non- ous earth ion 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.

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
₩ylene 1-methoxy-2-propanol			ACGIH TLV (United States, 7/2023) [p- xylene and mixtures containing p-xylene] Ototoxicant. TWA 8 hours: 20 ppm. ACGIH TLV (United States, 7/2023) TWA 8 hours: 50 ppm.
2-methylpropan-1-ol			TWA 8 hours: 184 mg/m ³ . STEL 15 minutes: 100 ppm. STEL 15 minutes: 369 mg/m ³ . ACGIH TLV (United States, 7/2023) TWA 8 hours: 50 ppm.
ethylbenzene			TWA 8 hours: 152 mg/m ³ . ACGIH TLV (United States, 7/2023) Ototoxicant. TWA 8 hours: 20 ppm.
Recommended monitoring procedures	:		riate monitoring standards. Reference to hods for the determination of hazardous
Appropriate engineering controls	:	contaminants below any recommende	ols 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 pr	ocess equipment should be checked to ensure environmental protection legislation. In some neering modifications to the process
ndividual protection measur	res		
Hygiene measures	:	before eating, smoking and using the Appropriate techniques should be use Contaminated work clothing should n	bughly after handling chemical products, lavatory and at the end of the working period. ed to remove potentially contaminated clothing ot be allowed out of the workplace. Wash . Ensure that eyewash stations and safety location.
Eye protection	:	Chemical splash goggles and face sh	
Skin protection Hand protection	:	be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are should be noted that the time to break different for different glove manufacture	s complying with an approved standard should nemical products if a risk assessment indicates irameters specified by the glove manufacturer still retaining their protective properties. It kthrough for any glove material may be irers. In the case of mixtures, consisting of
		several substances, the protection tin estimated.	ne of the gloves cannot be accurately

Section 8. Exposure controls/personal protection : Personal protective equipment for the body should be selected based on the task **Body protection** 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	:	Liquid.	
Color	1	Colorless.	
Odor	1	Aromatic.	
рН	1	Not applicable.	
Melting point	:	Not 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
oordonity(ics)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	Not available.	
Viscosity	:	Øynamic (room temperature Kinematic (room temperatu Kinematic (40°C (104°F)): >	ire): >400 mm²/s (>400 cSt)
Viscosity	1	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
Atty 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	Rat	1280 mg/kg	-
(dimethylaminomethyl) phenol				
	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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Section 11. Toxicological information

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Product/ingredient name	Result			Species	Score	9	Exposure	Observation
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritar		int	Rabbit	-		-	-
xylene	Skin - Irritant Skin - Moderate irrit		ritant Rabbit		-		- 24 hours 500 mg	-
Conclusion/Summary								
Skin	: There ar	e no dat	ta availal	ole on the mi	xture itse	lf.		
Eyes Respiratory				ole on the mi ole on the mi				
Sensitization						1		
Product/ingredient name	Route of exposure	:	Species			Resu	t	
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin		Mouse			Sensi	tizing	
3,6-diazaoctanethylenediamin	skin		Guinea p	big		Sensi	tizing	
Conclusion/Summary		•				•		
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	ta availal	ole on the mi	xture itsel	lf.		
Conclusion/Summary <u>Classification</u>	: There ar	e no dat	ta availal	ole on the mi	xture itse	lf.		
Product/ingredient name	OSHA	IARC	NTP					
xylene ethylbenzene	-	3 2B	-					
Carcinogen Classification IARC: 1, 2A, 2B, 3, 4 NTP: Known to be OSHA: + Not listed/not regul	l a human carci	inogen; R	easonably	anticipated to	be a huma	n carcin	ogen	
Reproductive toxicity Not available.								
Conclusion/Summary <u>Teratogenicity</u>	: There ar	e no dat	ta availal	ole on the mi	xture itse	lf.		

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Section 11. Toxicological information

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
xylene	ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure Potential acute health effects	: Not available.
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 Eye contact Inhalation	 sical, chemical and toxicological characteristics Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: respiratory tract irritation coughing

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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 effe	and also chronic effects from short and long term exposure	
Conclusion/Summary	There are no data available on the mixture itself. Exposure to component so vapor concentrations in excess of the stated occupational exposure limit main 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 weakned drowsiness and, in extreme cases, loss of consciousness. Solvents may ca- some of the above effects by absorption through the skin. There is some ev- that repeated exposure to organic solvent vapors in combination with consta- noise can cause greater hearing loss than expected from exposure to noise. If splashed in the eyes, the liquid may cause irritation and reversible damage lngestion may cause nausea, diarrhea and vomiting. This takes into account known, delayed and immediate effects and also chronic effects of componer 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 co- transient corneal edema described as blue haze, halo effect, foggy or blurred for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section worn, exposure is significantly reduced and the condition has not been obset	ny result m. ess, luse vidence ant loud alone. e. nts from cause d vision on 8 is
Short term exposure		
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 ef Not available.	<u>'S</u>	
General	Prolonged or repeated contact can defat the skin and lead to irritation, crack or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.	ing and
Carcinogenicity	Suspected of causing cancer. Risk of cancer depends on duration and level exposure.	l of
Mutagenicity	No known significant effects or critical hazards.	
Reproductive toxicity	No known significant effects or critical hazards.	
Numerical measures of toxi		
Acute toxicity estimates		

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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)
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 ethylbenzene 3,6-diazaoctanethylenediamin	1200 3500 1716	1280 17800 1465	N/A N/A N/A	N/A 17.8 N/A	N/A 1.5 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 >100 mg/l	Daphnia	48 hours
(dimethylaminomethyl)pheno	l ů		
	Acute LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/I Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2 ,4,6-tris	OECD 301D	4 % - Not readily - 28 days	-	-
(dimethylaminomethyl)phenol				
	Biodegradability -			
	Closed Bottle			
	Test			
ethylbenzene	-	79 % - Readily - 10 days	-	-

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Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-	-	Not readily
xylene 2,4,6-tris (dimethylaminomethyl)phenol	-	-	Readily Not readily
ethylbenzene	-	-	Readily

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 nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	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	III	Ш	111
Environmental hazards Marine pollutant substances	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. (Polyamide)	Yes. The environmentally hazardous substance mark is not required. 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 $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

Safety, health and		
environmental regulations		
specific for the product		

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

History

Date of previous issue	: 4/17/2024
Version	: 1.03
	EHS

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Product nam	ne	SIGMAPRIME 700 HARDENER				

Section 16. Other information

Key to abbreviations	: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
	ADR = The European Agreement concerning the International Carriage of
	Dangerous Goods by Road
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
	UN = United Nations
References	: ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

Disclaimer

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