

# **SAFETY DATA SHEET**



10 March 2020

# Section 1. Product and company identification

#### Product name Product code Other means of identification Product type

- : SIGMACOVER 555 HARDENER
- : 00393237
- : Not available.
- : Liquid.

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

#### **Identified uses**

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

#### Supplier's details:

Supplier	:	PPG Industries Colombia Ltda Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)
e-mail address of person responsible for this SDS	:	ernesto.guarnizo@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	<ul> <li>FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (respiratory tract) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs)</li> </ul>
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nearing organs)

English (US)	Colombia	

10 March 2020

5.03

Section 2. Hazard	sidentification
Target organs	<ul> <li>Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3</li> <li>Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 41.96 (Oral), 41.9% (Dermal), 48.3% (Inhalation)</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 44.7%</li> </ul>
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. Harmful in contact with skin or if inhaled. May be harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging the unborn child. Suspected of causing cancer. Causes damage to organs. (respiratory tract) May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. (hearing organs) Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical ventilating, lighting and all material-handling equipment. Use only non-sparking tool Take precautionary measures against static discharge. Keep container tightly closer Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hand thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Call a POISON CENTER or physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with
	English (US) Colombia 2/

Date of issue

Code	00393237		Date of issue	10 March 2020	Version	5.03
Product nam	ne	SIGMACOVER 555 HARDENER				

### Section 2. Hazards identification

	-	
Other hazards which do not result in classification	:	Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.
Disposal	-	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Storage	1	Store locked up. Store in a well-ventilated place. Keep cool.
		water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

### Section 3. Composition/information on ingredients

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

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

CAS number : Not applicable.		
Ingredient name	%	CAS number
xylene	20 - <30	1330-20-7
2-methylpropan-1-ol	20 - <30	78-83-1
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil	20 - <30	68082-29-1
fatty acids and triethylenetetramine		
2,4,6-tris(dimethylaminomethyl)phenol	5 - <7	90-72-2
ethylbenzene	3 - <5	100-41-4
Amines, polyethylenepoly-, triethylenetetramine fraction	1 - <2	90640-67-8
toluene	0.1 - <0.2	108-88-3

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	<ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.</li> </ul>
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
Indication of immediate	medical attention and special treatment needed, if necessary
Notes to physician Specific treatments	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.</li> </ul>
	English (US) Colombia 3/15

Code00393237Product nameSIG	MACOVER 555 HARDENE	Date of issue ER	10 March 2020	Version	5.03
Section 4. Firs	st aid measur	es			
Protection of first-aid	suspected or self-con aid to give	that fumes are still pres tained breathing appara	any personal risk or with sent, the rescuer should atus. It may be dangerou itation. Wash contamina year gloves.	wear an approp us to the persor	priate mask providing
Potential acute health	<u>effects</u>				
Eye contact	: Causes se	rious eye damage.			
Inhalation		inhaled. Can cause ce vsiness or dizziness.	ntral nervous system (CN	NS) depression.	May
Skin contact		single exposure in con	contact with skin. Cause tact with skin. Defatting		
Ingestion	Causes da		rosive to the digestive tra ng a single exposure if sy pression.		

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful 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, pr	otective 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.

Code00393237Product name5	SIGMACOVER 555 HARDENER	Date of issue	10 March 2020	Version	5.03
Section 6. A	ccidental releas	e measures			
For emergency resp	information in		e deal with the spillage, ta and unsuitable materials personnel".		
Environmental preca	and sewers. In pollution (sewe	nform the relevant au	nd runoff and contact wit thorities if the product has r air). Water polluting ma ge quantities.	s caused enviro	nmental
Methods and materia	Is for containment and o	<u>leaning up</u>			
Small spill	explosion-proc Alternatively, c	of equipment. Dilute v or if water-insoluble, a	ainers from spill area. Us with water and mop up if bsorb with an inert dry m er. Dispose of via a licens	water-soluble. aterial and place	e in an
Large spill	explosion-proc sewers, water effluent treatm combustible, a and place in c Dispose of via material may p	of equipment. Approa courses, basements ient plant or proceed absorbent material e.g ontainer for disposal a a licensed waste disp oose the same hazard	ainers from spill area. Us ach release from upwind. or confined areas. Wash as follows. Contain and g. sand, earth, vermiculite according to local regulat bosal contractor. Contam d as the spilled product. Section 13 for waste dis	Prevent entry in spillages into a collect spillage or diatomaceou ions (see Section inated absorbe Note: see Section	nto n with non- us earth on 13). nt

### Section 7. Handling and storage

**Precautions for safe** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking handling and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

10 March 2020

# Section 7. Handling and storage

Conditions for one of store $x$ . Store between the following temperatures: 0 to $25^{\circ}$ C (22 to $05^{\circ}$ C)	
<ul> <li>Conditions for safe storage, including any incompatibilities</li> <li>Store between the following temperatures: 0 to 35°C (32 to 95°F). accordance with local regulations. Store in a segregated and app in original container protected from direct sunlight in a dry, cool and area, away from incompatible materials (see Section 10) and food locked up. Eliminate all ignition sources. Separate from oxidizing container tightly closed and sealed until ready for use. Containers opened must be carefully resealed and kept upright to prevent leas store in unlabeled containers. Use appropriate containment to average the store in the store in the store in unlabeled containers.</li> </ul>	proved area. Store nd well-ventilated od and drink. Store g materials. Keep s that have been akage. Do not
store in unlabeled containers. Use appropriate containment to av contamination. See Section 10 for incompatible materials before	

Date of issue

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name		Exposure limits	
xylene 2-methylpropan-1-ol ethylbenzene		ACGIH TLV (United States, 3/2019). STEL: 651 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 3/2019). TWA: 152 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 3/2019). TWA: 20 ppm 8 hours.	
Becommended menitoring	If this product contains ingradiants with		
Recommended monitoring : procedures	of the ventilation or other control meas	hay be required to determine the effectiveness sures and/or the necessity to use respiratory uld be made to appropriate monitoring lance documents for methods for the	
Appropriate engineering : controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.		
Environmental exposure : controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
Individual protection measures			
Hygiene measures :	eating, smoking and using the lavatory Appropriate techniques should be use Contaminated work clothing should no	ed to remove potentially contaminated clothing. ot be allowed out of the workplace. Wash Ensure that eyewash stations and safety	
Eye protection : Skin protection	Chemical splash goggles and face sh	ield.	

English (US)

Colombia

5.03
------

#### Date of issue 10 March 2020 Version **SIGMACOVER 555 HARDENER** 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 : 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

Appearance		
Physical state	: Liquid.	
Color	: 🛛 ear.	
Odor	: Aromatic.	
рН	: Not available.	
Melting point	: Not available.	
Boiling point	: >37.78°C (>100°F)	
Flash point	: Closed cup: 26°C (78.8°F)	
Evaporation rate	: Not available.	
Flammability (solid, gas)	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density	: 0.92	
Solubility	: Insoluble in the following materials: cold water.	
Partition coefficient: n- octanol/water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)	

SIGMACOVER 555 HARDENER

### Section 10. Stability and reactivity

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

Date of issue

# Section 11. Toxicological information

#### Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
-	LD50 Oral	Rat	4.3 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)			0.0	
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	-
Amines, polyethylenepoly-, triethylenetetramine fraction	LD50 Dermal	Rabbit	1465 mg/kg	-
	LD50 Oral	Rat	1716 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

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

Date of issue

# Section 11. Toxicological information

Product/ingredient name	Result		Specie	s	Score		Exposure	Observation
xylene	Skin - Mode	erate irrita	nt Rabbit		•		24 hours 500 mg	-
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Skin - Irritar		Human	1 -			-	-
2,4,6-tris (dimethylaminomethyl) ohenol	Eyes - Seve Skin - Visib			-			- 4 hours	- 7 days
Conclusion/Summary	•			ľ				·
Skin	: There ar	e no data	available on th	e mixture	e itself.			
Eyes	: There ar	e no data	available on th	e mixture	e itself.			
Respiratory	: There ar	e no data	available on th	e mixture	e itself.			
Sensitization								
Product/ingredient name	Route of exposure	S	oecies			Resu	lt	
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin		ouse			Sensi	-	
2,4,6-tris (dimethylaminomethyl) phenol	skin	G	uinea pig			Sensi	tizing	
Conclusion/Summary								
Skin			available on th					
Respiratory <u>Mutagenicity</u> Not available.	: There ar	e no data	available on th	e mixture	e itself.			
Conclusion/Summary Carcinogenicity Not available.	: There ar	e no data	available on th	e mixture	e itself.			
Conclusion/Summary <u>Classification</u>	: There ar	e no data	available on th	e mixture	e itself.			
Product/ingredient name	OSHA	IARC	NTP					
xylene ethylbenzene	-	3 2B	-					
toluene	-	3	-					
Carcinogen Classification of IARC: 1, 2A, 2B, 3, 4 NTP: Known to be OSHA: +	l.	nogen; Rea	sonably anticipat	ed to be a	human	carcino	ogen	

English (US) Colombia

Date of issue

### Section 11. Toxicological information

#### Reproductive toxicity

Not available.

#### Conclusion/Summary : There

: There are no data available on the mixture itself.

### <u>Teratogenicity</u>

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	Not applicable.	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation
Amines, polyethylenepoly-, triethylenetetramine fraction	Category 1	Not determined	respiratory tract
toluene	Category 3	Not applicable.	Narcotic effects

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

Name		Route of exposure	Target organs
	0,		hearing organs Not determined

#### Target organs

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, liver, gastrointestinal tract, 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
toluene	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. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	:	Causes severe burns. Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause an allergic skin reaction.

Code 00393237 Product name SIGMAC	OVER 555 HARDENER	Date of issue	10 March 2020	Version	5.03
Section 11. Toxi	cological info	rmation			
Ingestion	Causes damage		rosive to the digestive ng a single exposure if pression.		
symptoms related to the pl	nysical, chemical and	toxicological ch	aracteristics		
Eye contact	: Adverse sympto pain watering redness	oms may include th	e following:		
Inhalation	: Adverse sympto nausea or vomi headache drowsiness/fatig dizziness/vertige unconsciousnes reduced fetal w increase in fetal skeletal malforr	gue o ss eight deaths	e following:		
Skin contact	: Adverse sympto pain or irritation redness dryness cracking blistering may o reduced fetal we increase in fetal skeletal malform	eight deaths	e following:		
Ingestion		oms may include th eight deaths	e following:		
Delayed and immediate effe	ects and also chronic	effects from sho	ort and long term exr	osure	
Conclusion/Summary	: There are no day vapor concentrat adverse health and adverse eff signs include he extreme cases, effects by absort exposure to org cause greater h in the eyes, the cause nausea, of delayed and im	ata available on the ations in excess of the effects such as mu ects on the kidneys eadache, dizziness loss of consciousn panic solvent vapors earing loss than ex liquid may cause in diarrhea and vomition mediate effects and	e mixture itself. Expos the stated occupationa icous membrane and s, liver and central ner , fatigue, muscular we ess. Solvents may ca skin. There is some et s in combination with c spected from exposure ritation and reversible ing. This takes into ac d also chronic effects ral, inhalation and der	ure to component al exposure limit m respiratory system vous system. Sym eakness, drowsines use some of the a vidence that repea constant loud noise to noise alone. If damage. Ingestic ccount, where know of components fro	ay result in irritation optoms and ss and, in bove ted e can splashed on may wn, om short-
Potential immediate effects	: There are no da	ata available on the	e mixture itself.		
			English (US) Colo	ombia	11/

10 Ma

# Section 11. Toxicological information

2

Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Date of issue

#### 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)
SIGMACOVER 555 HARDENER	2913.6	1595.2	N/A	20.8	2.7
xylene	4300	1100	N/A	11	1.5
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
Amines, polyethylenepoly-, triethylenetetramine fraction	1716	1465	N/A	N/A	N/A
toluene	5580	8390	N/A	49	N/A

#### Other information

Do not taste or swallow. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

10 March 2020

5.03

# Section 12. Ecological information

#### **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and	EC10 1.78 mg/l	Algae	72 hours
triethylenetetramine			
2,4,6-tris (dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
Amines, polyethylenepoly-, triethylenetetramine fraction	Acute EC50 20 mg/l	Aquatic plants - Daphnia magna	72 hours
	Acute EC50 31.1 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 330 mg/l	Fish - Pimephales promelas	96 hours
	Acute NOEC 2.5 mg/l	Crustaceans	72 hours

#### Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine ethylbenzene toluene	- - -	-	Readily Not readily Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene 2-methylpropan-1-ol ethylbenzene Amines, polyethylenepoly-, triethylenetetramine fraction toluene	3.16 0.76 3.15 -2.65 2.73	7.4 to 18.5 - 79.43 - 8.32	low low low low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**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, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)
Packing group	III	Ш	Ш	III
Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

#### Additional information

UN	: None identified.
Brazil	: None identified.
Risk number	: 38
IMDG	: None identified.
IATA	: None identified.

**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.

### 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	:	1/17/2020
Version	: :	5.03
		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
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.