SAFETY DATA SHEET



Date of issue 21 May 2021

Version 7.02

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMACOVER 1500 TG HARDENER
- : 00247602
- : 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)
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	: ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN CORROSION - Category 1
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 2
Target organs	: Contains material which causes damage to the following organs: blood, liver, heart, brain.
	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eyes, central nervous system (CNS).

Code 00247602 Product name SIGMACOV	ER	Date of issue 1500 TG HARDENER	21 May 2021	Version	7.02
Section 2. Hazards	s i	dentification			
		Percentage of the mixture consisting 11% Percentage of the mixture consisting the mixture c			-
		toxicity: 11% Percentage of the mixture consistint toxicity: 72.6%			
		Percentage of the mixture consisting aquatic environment: 19.9%	ng of ingredient(s) of u	inknown hazards	to the
GHS label elements					
Hazard pictograms	:				
Signal word	:	Danger			
Hazard statements	:	Harmful if swallowed, in contact wi Causes severe skin burns and eye May cause an allergic skin reaction Toxic to aquatic life with long lastir	e damage. n.		
Precautionary statements			-		
Prevention	:	Wear protective gloves, protective release to the environment. Avoid when using this product. Wash the	breathing vapor. Do r	not eat, drink or s	
Response	:	Collect spillage. IF INHALED: Imm SWALLOWED: Immediately call a NOT induce vomiting. IF ON SKIN clothing. Rinse skin with water. Im Wash contaminated clothing befor or doctor if you feel unwell. Wash occurs: Get medical advice or atte several minutes. Remove contact Immediately call a POISON CENT	POISON CENTER or N (or hair): Take off import mediately call a POISO re reuse. IF ON SKIN: with plenty of water. In ntion. IF IN EYES: Rir lenses, if present and o	doctor. Rinse m mediately all con ON CENTER or Call a POISON f skin irritation or nse cautiously wi	outh. Do taminated doctor. CENTER rash th water fo
Storage	:	Not applicable.			
Disposal	:	Dispose of contents and container and international regulations.	in accordance with all	local, regional, r	ational
Other hazards which do not result in classification	:	None known.			

Section 3. Composition/information on ingredients

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

CAS number/other identifiers		
CAS number	:	Not applicable.

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Propylidynetrimethanol, propoxylated, reaction products with ammonia benzyl alcohol 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with 3-aminomethyl- 3,5,5-trimethylcyclohexylamine	30 - <60 15 - <20 10 - <12.5	39423-51-3 100-51-6 38294-64-3
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2,4,6-tris(dimethylaminomethyl)phenol	5 - <7 1 - <2	2855-13-2 90-72-2

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 me	lical 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 effec	<u>S</u>	
Eye contact	: Causes serious eye damage.	
Inhalation	: Harmful if inhaled.	
Skin contact	: Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.	
Ingestion	: Harmful if swallowed.	

See toxicological information (Section 11)

Date of issue SIGMACOVER 1500 TG HARDENER 21 May 2021

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst. 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 halogenated compounds
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.
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. 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 Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to

local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section

21 May 2021

7.02

Section 6. Accidental release measures

13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	:	Fut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters	
Occupational exposure limits	
None.	
Recommended monitoring : procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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.
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 :	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection : Skin protection	Chemical splash goggles and face shield.

English (US)

Colombia

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	: butyl rubber
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.
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	Black.	
Odor	Amine-like. [Strong]	
рН	Not applicable.	
Melting point	Not available.	
Boiling point	>37.78°C (>100°F)	
Flash point	Closed cup: 150°C (302°F)	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Lower and upper explosive (flammable) limits	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	: 1	
Solubility	Insoluble in the following materials: cold water.	
Partition coefficient: n- octanol/water	Not applicable.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)	
Viscosity	60 - 100 s (ISO 6mm)	

Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredie	ents.
Chemical stability	The product is stable.	
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occu	ır.
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.	S:
Hazardous decomposition products	Depending on conditions, decomposition products may include the following m carbon oxides nitrogen oxides halogenated compounds	naterials:

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
Propylidynetrimethanol, propoxylated, reaction products with ammonia	LD50 Dermal	Rabbit	0.4 g/kg	-
	LD50 Oral	Rat	0.22 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	4 hours
-	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
3-aminomethyl-	LC50 Inhalation Dusts and mists	Rat	>5.01 mg/l	4 hours
3,5,5-trimethylcyclohexylamine			-	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1030 mg/kg	-
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	
2,4,6-tris (dimethylaminomethyl) phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days	
Conclusion/Summary		·				
Skin	: There are no data avai	: There are no data available on the mixture itself.				
Eyes	: There are no data avai	There are no data available on the mixture itself.				
Respiratory	: There are no data avai	There are no data available on the mixture itself.				
Sensitization						

Sigmaco Section 11. Toxic	ological inf			
Product/ingredient name	Route of exposure	Species	Result	
3 -aminomethyl-	skin	Guinea pig	Sensitizing	
3,5,5-trimethylcyclohexylamine 2,4,6-tris (dimethylaminomethyl) phenol	skin	Guinea pig	Sensitizing	
Conclusion/Summary				
Skin Respiratory <u>Mutagenicity</u> Not available.		ata available on the m ata available on the m		
Conclusion/Summary Carcinogenicity Not available.	: There are no d	ata available on the m	nixture itself.	
Conclusion/Summary Reproductive toxicity Not available.	: There are no d	ata available on the m	nixture itself.	
Conclusion/Summary Teratogenicity Not available.	: There are no d	ata available on the m	nixture itself.	
Conclusion/Summary Specific target organ toxici Not available.		ata available on the m <mark>e)</mark>	nixture itself.	
<mark>Specific target organ toxici</mark> Not available.	ty (repeated expos	<u>sure)</u>		
<u>Target organs</u>	brain. Contains mate	rial which may cause		gans: blood, liver, heart, g organs: kidneys, upper
Aspiration hazard				
Name			Result	
benzyl alcohol			ASPIRATION HAZ	ARD - Category 2
formation on the likely outes of exposure	: Not available.			
<u>otential acute health effect</u> Eye contact	Solution: Causes serious	s eve damage		
Inhalation	: Harmful if inhal			

Code 00247602 Product name SIGMA	Date of issue ACOVER 1500 TG HARDENER	21 May 2021	Version 7.02
	cicological information		
Skin contact	: Causes severe burns. Harmful in reaction.	contact with skin. May	cause an allergic skin
Ingestion	: Harmful if swallowed.		
Symptoms related to the	physical, chemical and toxicological ch	aracteristics	
Eye contact	: Adverse symptoms may include the pain watering redness	e following:	
Inhalation	: No specific data.		
Skin contact	: Adverse symptoms may include the pain or irritation redness blistering may occur	e following:	
Ingestion	: Adverse symptoms may include the stomach pains	e following:	
Delayed and immediate e	effects and also chronic effects from sho	ort and long term exp	<u>osure</u>
Conclusion/Summary	: There are no data available on the vapor concentrations in excess of t in adverse health effects such as n irritation and adverse effects on the	the stated occupationa nucous membrane and	l exposure limit may resu l respiratory system

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from

short-term and long-term exposure by oral, inhalation and dermal routes of

	exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: 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	<u>cts</u>
Not available.	
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: 📈 known significant effects or critical hazards.

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)
SIGMACOVER 1500 TG HARDENER	617.4	1298.4	N/A	N/A	2.1
Propylidynetrimethanol, propoxylated, reaction products with ammonia	500	1100	N/A	N/A	N/A
benzyl alcohol	1230	2000	N/A	N/A	1.5
3-aminomethyl-3,5,5-trimethylcyclohexylamine	1030	2500	N/A	N/A	N/A
2,4,6-tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
2,4,6-tris (dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours

Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
penzyl alcohol	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Propylidynetrimethanol, propoxylated, reaction products with ammonia	-1.13	-	low
benzyl alcohol	0.87	-	low
4,4'-Isopropylidenediphenol,	-	5.13	low
oligomeric reaction products			
with 1-chloro-			
2,3-epoxypropane, reaction			
products with 3-aminomethyl-			
3,5,5-trimethylcyclohexylamine			
3-aminomethyl-	0.99	-	low
3,5,5-trimethylcyclohexylamine			
2,4,6-tris	0.219	-	low
(dimethylaminomethyl)phenol			

Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

English (US)

21 May 2021

7.02

Section 12. Ecological information

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. 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	UN3066	UN3066	UN3066	UN3066
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	8	8	8	8
Packing group	II	II	II	Π
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Polyoxy propylene diamine, 4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with 3-aminomethyl- 3,5,5-trimethylcyclohexylamine)	Not applicable.

Additional information

UN	: None identified.
Brazil	: None identified.
Risk number	: 80
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.

Code	00247602	Date of issue	21 May 2021	Version	7.02	
Product na	ame SIGMACOVER	1500 TG HARDENER				
Section	Section 14. Transport information					

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

Η	istory	

Date of previous issue : 1/16/2020 Version 7.02 EHS Key to abbreviations : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations 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.