# **SAFETY DATA SHEET**



Date of issue 17 October 2024

Version 3.04

## Section 1. Product and company identification

Product name	:	SIGMAGLIDE 790 (TIECOAT) HARDENER
Product code	1	000001010982
Other means of identification	:	00188976; 00198089; 00231309; 00353496; 00419105
Product type	:	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	<ul> <li>PPG Industries Colombia Ltda Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)</li> </ul>
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 5 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2

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Section 2. Haza	rds identification					
Target organs	: Contains material which may caus liver, bladder, gastrointestinal tract central nervous system (CNS), eye	t, upper respiratory tract,				
	3.1%	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal				
	Percentage of the mixture consisti aquatic environment: 96.6%	ng of ingredient(s) of un	known hazards	s to the		
GHS label elements						
Hazard pictograms						
Signal word	: Danger					
Hazard statements	: Harmful if swallowed. May be harmful in contact with ski Causes severe skin burns and eye May cause an allergic skin reactio Suspected of causing genetic defe May damage fertility or the unborn May cause damage to organs. (the May cause damage to organs thro system) Toxic to aquatic life with long lastin	e damage. n. ects. child. ymus) ugh prolonged or repeat	ed exposure. (	ïmmune		
Precautionary statemen						
Prevention	: Obtain special instructions before and eye or face protection. Avoid Do not eat, drink or smoke when u	release to the environme	ent. Do not bre	eathe vapo		
Response	: Collect spillage. IF exposed or co INHALED: Immediately call a POIS Immediately call a POISON CENT vomiting. IF ON SKIN (or hair): Ta Rinse skin with water. Immediatel irritation or rash occurs: Get media clothing before reuse. IF IN EYES Remove contact lenses, if present	SON CENTER or doctor ER or doctor. Rinse mo ake off immediately all co y call a POISON CENTE cal advice or attention. V S: Rinse cautiously with v and easy to do. Continu	. IF SWALLO outh. Do NOT in ontaminated clo ER or doctor. I Vash contamin vater for severa	NED: nduce othing. f skin nated al minutes		

Storage: Not applicable.Disposal: Dispose of contents and container in the state of the state of

Dispose of contents and container in accordance with all local, regional, national and international regulations.

call a POISON CENTER or doctor.

Other hazards which do not : Causes digestive tract burns. result in classification

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## Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

- : Mixture
- : 00188976; 00198089; 00231309; 00353496; 00419105

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

<b>CAS number</b> : Not applicable.		
Ingredient name	%	CAS number
triacetoxyethylsilane dibutyltin di(acetate) 1,1,3,3-Disiloxanetetrol, 1,3-diethyl-, tetraacetate	60 - 100 3 - <5 2 - <3	17689-77-9 1067-33-0 122842-90-4

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	1	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Indication of immediate medi	ca	attention and special treatment needed, if necessary
Notes to physician Specific treatments		Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Potential acute health effects		
Eye contact	1	Causes serious eye damage.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	:	Causes severe burns. May be harmful in contact with skin. May cause damage to organs following a single exposure in contact with skin. May cause an allergic skin reaction.
Ingestion	:	Harmful if swallowed. Corrosive to the digestive tract. Causes burns. May cause damage to organs following a single exposure if swallowed.

Section 4. First aid measures

See toxicological information (Section 11)

## 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 metal oxide/oxides
Special protective actions for fire-fighters	<ul> <li>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.</li> </ul>
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

## 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 co	ntainment and cleaning up
Small snill	Stop look if without risk. Move containers from spill area. Dilute with water and

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and<br/>mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry<br/>material and place in an appropriate waste disposal container. Dispose of via a<br/>licensed waste disposal contractor.

# Section 6. Accidental release measures 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 13 for waste disposal.

## 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. Avoid exposure during pregnancy. 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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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** 

Ingredient name		Exposure limits
organic compounds] Absorbed i skin. TWA 8 hours: 0.1 mg/m³ (as Sn)		ACGIH TLV (United States, 7/2023) [Tin, organic compounds] Absorbed through skin. TWA 8 hours: 0.1 mg/m <sup>3</sup> (as Sn). STEL 15 minutes: 0.2 mg/m <sup>3</sup> (as Sn).
Recommended monitoring procedures		opriate monitoring standards. Reference to ethods for the determination of hazardous
Appropriate engineering controls		mes, gas, vapor or mist, use process enclosures, gineering controls to keep worker exposure to ecommended or statutory limits.

Section 8. Expos	ure controls/personal protection
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 measu	<u>Ires</u>
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	: Chemical splash goggles and face shield.
Skin 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	<ul> <li>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.</li> </ul>
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.

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# Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	: Liquid.	
Color	: Colorless.	
Odor	: Characteristic.	
рН	: Not applicable.	
Melting point	: Not available.	
Boiling point	: >37.78°C (>100°F)	
Flash point	: Closed cup: 109°C (228.2°F)	
Evaporation rate	: Not available.	
Flammability (solid, gas)	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	

## Section 9. Physical and chemical properties

Vapor pressure	1	Not available.	
Vapor density	:	Not available.	
Relative density	:	1.15	
Bulk density (g/cm³)	:	1.18	
Solubility(ies)		Media Result	
Solubility(les)	1	cold water Not soluble	
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	480°C (896°F)	
Decomposition temperature	:	Not available.	
Viscosity	:	Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)	

## 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	: Depending on conditions, decomposition products may include the following material carbon oxides metal oxide/oxides

## Section 11. Toxicological information

#### Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
triacetoxyethylsilane dibutyltin di(acetate)	LD50 Oral LD50 Dermal	Rat Rabbit	1.462 g/kg 2318 mg/kg	-
Conclusion/Summary Irritation/Corrosion Not available.	: There are no data availabl	e on the mixture i	tself.	
Conclusion/Summary				
Skin	: There are no data availabl	le on the mixture i	tself.	
Evec	: There are no data availabl	e on the mixture i	tself.	
Eyes				
Respiratory	: There are no data availabl	le on the mixture i		
	: There are no data availabl	e on the mixture i		

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## Section 11. Toxicological information

Not available.

Conclusion/Summary Skin Respiratory <u>Mutagenicity</u> Not available.	<ul> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> </ul>
Conclusion/Summary Carcinogenicity Not available.	: There are no data available on the mixture itself.
Conclusion/Summary <u>Reproductive toxicity</u> Not available.	: There are no data available on the mixture itself.
Conclusion/Summary <u>Teratogenicity</u> Not available.	: There are no data available on the mixture itself.

#### **Conclusion/Summary** : There are no data available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>

Name		Route of exposure	Target organs
dibutyltin di(acetate)	Category 1	oral	thymus

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

Name		Route of exposure	Target organs
dibutyltin di(acetate)	Category 1	-	immune system

Target organs

: Contains material which may cause damage to the following organs: blood, kidneys, liver, bladder, gastrointestinal tract, upper respiratory tract, immune system, skin, central nervous system (CNS), eye, lens or cornea.

#### Aspiration hazard

Not available.

Information on the likely<br/>routes of exposure: Not available.Potential acute health effectsEye contact: Causes serious eye damage.Inhalation: No known significant effects or critical hazards.Skin contact: Causes severe burns. May be harmful in contact with skin. May cause damage to<br/>organs following a single exposure in contact with skin. May cause an allergic skin<br/>reaction.

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Product name SI	GMAGLIDE	790 (TIECOAT) HARDENER			
Section 11. To	oxicol	ogical information			
Ingestion	:	Harmful if swallowed. Corrosiv damage to organs following a s			/lay cause
Symptoms related to	the physic	cal, chemical and toxicological	characteristics		
Eye contact	:	Adverse symptoms may include pain watering redness	e the following:		
Inhalation	:	<ul> <li>Adverse symptoms may include reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>	e the following:		
Skin contact	:	Adverse symptoms may include pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations	the following:		
Ingestion	:	Adverse symptoms may include stomach pains reduced fetal weight increase in fetal deaths skeletal malformations	e the following:		
Delayed and immedia	te effects	and also chronic effects from	short and long terr	<u>n exposure</u>	
Conclusion/Summa	ary :	There are no data available on may cause irritation and reversi and vomiting. This takes into a effects and also chronic effects exposure by oral, inhalation and	ble damage. Ingest ccount, where know of components fron	ion may cause nause n, delayed and imme n short-term and long	ea, diarrhea ediate g-term
Short term exposure	1				
Potential immediate effects	e :	There are no data available on	the mixture itself.		
Potential delayed e		There are no data available on	the mixture itself.		
Long term exposure					
Potential immediate effects	e :	There are no data available on	the mixture itself.		
Potential delayed e		There are no data available on	the mixture itself.		
Potential chronic hea	alth effect	<u>ts</u>			
Not available.					
General	:	May cause damage to organs t sensitized, a severe allergic rea low levels.			
Carcinogenicity	:	No known significant effects or	critical hazards.		
Mutagenicity	:	Suspected of causing genetic d	efects.		
Reproductive toxic	ity :	May damage fertility or the unb	orn child.		
			English (US)	Colombia	9/12

## 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)
SIGMAGLIDE 790 (TIECOAT) HARDENER	1444.2	2586.3	N/A	N/A	N/A
triacetoxyethylsilane	1462	N/A	N/A	N/A	N/A
dibutyltin di(acetate)	N/A	2318	N/A	N/A	N/A
1,1,3,3-Disiloxanetetrol, 1,3-diethyl-, tetraacetate	500	N/A	N/A	N/A	N/A

#### Other information

: Not available.

## Section 12. Ecological information

Ecotoxicity			
Product/ingredient name	Result	Species	Exposure
dibutyltin di(acetate)	Acute EC10 3.1 mg/l Acute EC50 0.5 mg/l	Fish Algae	72 hours 72 hours

#### Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
dibutyltin di(acetate)	-	-	Not readily

#### **Bioaccumulative potential**

Not available.

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

English (US) Colombia	10/12
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## Section 14. Transport information

	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ	
UN number	UN3066	UN3066	UN3066	UN3066	
UN proper PAINT PAINT PAINT PAINT		PAINT	PAINT		
Transport hazard class(es)	8	8	8	8	
Packing group	II	II	II	II	
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.	(dibutyltin di(acetate))	Not applicable.	

Additional inform	nation		
UN	: None identified.		
Brazil	Brazil : None identified.		
<b>Risk number</b>	Risk number : 80		
IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.			
IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.			
Special precaution	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 according : Not applicable. to IMO instruments			
Section 15. Regulatory information			

# Safety, health and : No known specific national and/or regional regulations applicable to this product

environmental regulations (including its ingredients). specific for the product

## Section 16. Other information

Η	istory	
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Date of previous issue	: 7/29/2024
Version	: 3.04
	EHS

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Product nam	ne SIGMAGLIDE 790 (TIECOAT) HA	RDENER			

## 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.