# **SAFETY DATA SHEET**



Date of issue 21 March 2024

Version 10.01

### Section 1. Product and company identification

Product name Product code Other means of identification Product type : SIGMAGLIDE 790 HARDENER

- : 00188976
- : 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	<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

substance or mixture 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) - Catego	ry 2
AQUATIC HAZARD (ACUTE) - Category 2	
AQUATIC HAZARD (LONG-TERM) - Category 2	

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Section 2. Hazards	s identific	ation			
Target organs	liver, bladde	,	se damage to the followi ct, upper respiratory tract /e, lens or cornea.	0 0	
	3.1%	of the mixture consist	ting of ingredient(s) of ur ting of ingredient(s) of ur		-
		of the mixture consist ronment: 96.6%	ting of ingredient(s) of ur	nknown hazards	to the
GHS label elements					
Hazard pictograms					
Signal word	: Danger	• •	•		
Hazard statements	Causes sev May cause a Suspected o May damag May cause o May cause o system)	nful in contact with sk ere skin burns and ey an allergic skin reactio of causing genetic def e fertility or the unborn damage to organs. (th	re damage. on. 'ects. n child. nymus) ough prolonged or repea	ited exposure. (	immune
Precautionary statements		0	0		
Prevention	and eye or f	ace protection. Avoid	use. Wear protective g I release to the environm using this product. Was	ent. Do not bre	eathe vapor
Response	INHALED: I Immediately vomiting. IF Rinse skin v contaminate doctor if you Get medical minutes. Re	mmediately call a PO call a POISON CEN ON SKIN (or hair): T with water. Immediate cd clothing before reus feel unwell. Wash w advice or attention.	oncerned: Call a POISON ISON CENTER or docto TER or doctor. Rinse ma ake off immediately all c ely call a POISON CENT se. IF ON SKIN: Call a F vith plenty of water. If sk IF IN EYES: Rinse cautio if present and easy to d TER or doctor.	r. IF SWALLOW outh. Do NOT ir contaminated clo ER or doctor. V POISON CENTE in irritation or ra pusly with water	VED: nduce othing. Vash ER or sh occurs: for severa
Storage	: Not applicat	ole.			
Disposal		contents and containe ional regulations.	r in accordance with all I	ocal, regional, r	national
Other hazards which do not result in classification	: Causes dige	estive tract burns.			

## Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

: Mixture

: Not available.

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

CAS number : 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	l 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	4	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	: 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 co	on	tainment 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.

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## 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.
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## 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	
dibutyltin di(acetate)		ACGIH TLV (United States, 1/2023). [Tin, organic compounds as Sn] Absorbed through skin. STEL: 0.2 mg/m <sup>3</sup> , (as Sn) 15 minutes. TWA: 0.1 mg/m <sup>3</sup> , (as Sn) 8 hours.	
Recommended monitoring procedures	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		nes, gas, vapor or mist, use process enclosures, gineering controls to keep worker exposure to commended or statutory limits.	

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Section 8. Exposure 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 measure	res		
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.		

## Section 9. Physical and chemical properties

Appearance		
Physical state	1	Liquid.
Color	1	Not available.
Odor	1	Characteristic.
рН	1	Not applicable.
Melting point	1	Not available.
Boiling point	1	>37.78°C (>100°F)
Flash point	1	Closed cup: 109°C (228.2°F)
Evaporation rate	1	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.

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## 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/icc)		Media	Result
Solubility(ies)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	480°C (896°F)	
Decomposition temperature	:	Not available.	
Viscosity	:	Kinematic (40°C (104°F	<sup>-</sup> )): >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 materials: carbon oxides metal oxide/oxides

## Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
friacetoxyethylsilane 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 availab	le on the mixture i	tself.	
<u>Conclusion/Summary</u> Skin	: There are no data availab	ole on the mixture i	tself.	
Eyes Respiratory <u>Sensitization</u> Not available.	: There are no data availab : There are no data availab			

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## Section 11. Toxicological information

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

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

### Specific target organ toxicity (single exposure)

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
Øibutyltin 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 routes of exposure <u>Potential acute health effects</u>	1	Not available.
Eye 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 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.

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## Section 11. Toxicological information

### Symptoms related to the physical, chemical and toxicological characteristics

oymptomo related to the	physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

and vomiting. This takes into account, where known, or effects and also chronic effects of components from sh exposure by oral, inhalation and dermal routes of expo	hort-term and long-term
Short term exposure	
Potential immediate : There are no data available on the mixture itself. effects	
Potential delayed effects : There are no data available on the mixture itself.	
Long term exposure	
Potential immediate : There are no data available on the mixture itself. effects	
Potential delayed effects : There are no data available on the mixture itself.	
Potential chronic health effects	
Not available.	
General : May cause damage to organs through prolonged or representation sensitized, a severe allergic reaction may occur when a low levels.	
<b>Carcinogenicity</b> : No known significant effects or critical hazards.	

- **Mutagenicity** : Suspected of causing genetic defects.
- **Reproductive toxicity** : May damage fertility or the unborn child.

### Numerical measures of toxicity

Acute toxicity estimates

		logical information			
Product na	sigmage Sigmaglid	E 790 HARDENER			
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Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMAGLIDE 790 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	Fish	72 hours
	Acute EC50 0.5 mg/l	Algae	72 hours

#### Persistence/degradability

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

#### **Bioaccumulative potential**

Not available.

<u>Mobility in soil</u>	
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. 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	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	: None identified.		
<b>Risk number</b>	: 80		
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 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 to IMO instrumer			
Section 15 Regulatory information			

### Section 15. Regulatory information

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

## Section 16. Other information

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### Section 16. Other information

Key to abbreviations	<ul> <li>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</li> </ul>
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.