# SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to GHS UN rev. 7

Date of issue/Date of revision 21 March 2024 Version 13.01

# Section 1. Identification

Product code	: 00188976		
Product name	: SIGMAGLIDE 790 HARDENER		
Product type	: Liquid.		
Other means of identification Not available.			
Relevant identified uses of the substance or mixture and uses advised against			
Product use	: Coating. Professional applications, Used by spraying.		
Uses advised against	: Product is not intended, labelled or packaged for consumer use.		
Supplier's information	: PPG Asian Paints Private Limited 6A Shanti Nagar Santa Cruz (East) Mumbai - 400055 India		
Emergency telephone number:	: +91 22 6815 8700		

# Section 2. Hazards identification

Classification of the	: ACUTE TOXICITY (oral) - Category 4
substance or mixture	ACUTE TOXICITY (dermal) - Category 5
	SKIN CORROSION/IRRITATION - Category 1B
	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
	SKIN SENSITISATION - Category 1
	GERM CELL MUTAGENICITY - Category 2
	REPRODUCTIVE TOXICITY - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2
	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2
	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 3.1%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 96.6%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 96.6%
GHS label elements	
Hazard pictograms	
Signal word	: Danger

Product code 00188976

### Product name SIGMAGLIDE 790 HARDENER

Section 2. Hazard		
Hazard statements	Harmful if swallowed. May be harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May damage fertility or the unborn child. May cause damage to organs. (thymus) May cause damage to organs through prolonged or repeated exposure. (immu system) Toxic to aquatic life with long lasting effects.	ne
Precautionary statements	-	
Prevention	Obtain special instructions before use. Do not handle until all safety precaution have been read and understood. Wear protective gloves, protective clothing a eye or face protection. Avoid release to the environment. Do not breathe vapo Do not eat, drink or smoke when using this product. Wash thoroughly after has Contaminated work clothing should not be allowed out of the workplace.	nd our.
Response	Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediate a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwe Wash with plenty of water. If skin irritation or rash occurs: Get medical advice attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.	ly call water ell. or
Storage	Store locked up.	
Disposal	Dispose of contents and container in accordance with all local, regional, nation and international regulations.	al
Other hezerde which do not	Courses directive treat huma	

Other hazards which do not : Causes digestive tract burns.

result in classification

### Section 3. Composition/information on ingredients

### Substance/mixture

: Mixture

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

**CAS number** : Not applicable.

Ingredient name	%	CAS number
triacetoxyethylsilane	50 - 100	17689-77-9
dibutyltin di(acetate)	3 - <5	1067-33-0
1,1,3,3-Disiloxanetetrol, 1,3-diethyl-, tetraacetate	1 - <3	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	<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 recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>		
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.		

Most important sy	mptoms/effects, acute	and delayed

Potential acute health effe	
Eye contact	Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	<ul> <li>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.</li> </ul>
Ingestion	: Harmful if swallowed. Corrosive to the digestive tract. Causes burns. May cause damage to organs following a single exposure if swallowed.
Over-exposure signs/sym	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments Protection of first-aiders	<ul> <li>No specific treatment.</li> <li>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.</li> </ul>

#### See toxicological information (Section 11)

### Section 5. Firefighting 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	: 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	<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, protec	tive 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 spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised 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 spilt 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 material for con	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.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the 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 spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

Precautions for safe handling	
Protective measures :	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 vapour 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.
Advice on general : occupational hygiene	Eating, drinking 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. See also Section 8 for additional information on hygiene measures.
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 unlabelled 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	:	If user operations generate dust, fumes, gas, vapour or mist, 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 measu			

Individual protection measures

### Section 8. Exposure controls/personal protection

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/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
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	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### <u>Appearance</u>

Physical state Colour	: Liquid. : Not available.
Odour	: Characteristic.
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: >37.78°C (>100°F)
Flammability	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Flash point	: Closed cup: 109°C (228.2°F)
Auto-ignition temperature	: 480°C (896°F)
Decomposition temperature	: Not available.
рН	: Not applicable.
Viscosity	: Kinematic (40°C): >21 mm <sup>2</sup> /s

Product code 00188976 Product name SIGMAGLID	E 79	0 HARDENER	D	ate of i	issue 21 Ma	rch 2024	ı v	ersion 13.01
Section 9. Physic	al	and chemica	al prop	oertie	es			
Solubility/ico)		Media	Re	sult				
Solubility(ies)		cold water	No	t solub	e			
Partition coefficient: n- octanol/water	:	Not applicable.						
Vapour pressure	:		Vapour Pressure at 20°C			Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		triacetoxyethylsilane	0.7500615	0.1				
Relative density	:	1.15						
Bulk density (g/cm <sup>3</sup> )	:	1.18						
Relative vapour density	:	Not available.						
Particle characteristics								

Median particle size : Not applicable.

Evaporation rate

### : Not available. Section 10. Stability and reactivity

Section 10. Stabil	ity 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: oxidising agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides
Hazardous polymerisation	: Under normal conditions of storage and use, hazardous polymerisation will not occur.

# Section 11. Toxicological information

### Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Macetoxyethylsilane dibutyltin di(acetate)	LD50 Oral LD50 Dermal	Rat Rabbit	1.462 g/kg 2318 mg/kg	-
Conclusion/Summary rritation/Corrosion	: There are no data available of	on the mixture it	self.	
Conclusion/Summary				
Skin	: There are no data available of	on the mixture it	self.	

# Section 11. Toxicological information

	-
Respiratory	: There are no data available on the mixture itself.
Sensitisation	
Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Reproductive toxicity</b>	
	: There are no data available on the mixture itself.
Conclusion/Summary	
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	: 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
øĥbutyltin di(acetate)	Category 1	-	immune system

#### **Aspiration hazard**

Not available.

Information on likely routes of exposure	available.	
Potential acute health effects		
Eye contact	ses serious eye damage.	
Inhalation	nown significant effects or critical hazards.	
Skin contact	ses severe burns. May be harmful in contact with skin. May ns following a single exposure in contact with skin. May caus tion.	5
Ingestion	nful if swallowed. Corrosive to the digestive tract. Causes be age to organs following a single exposure if swallowed.	urns. May cause
Symptoms related to the phy	nemical and toxicological characteristics	
Eye contact	erse symptoms may include the following: ring ess	
Inhalation	erse symptoms may include the following: ced foetal weight ease in foetal deaths etal malformations	

### Section 11. Toxicological information

Skin contact	: Adverse symptoms may include the following: pain or irritation	
	redness	
	blistering may occur	
	reduced foetal weight	
	increase in foetal deaths	
	skeletal malformations	
Ingestion	: Adverse symptoms may include the following:	
	stomach pains	
	reduced foetal weight	
	increase in foetal deaths	
	skeletal malformations	

Delayed and immediate effect	ts	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>s</u>
Not available.		
General	-	May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	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

Route	ATE value
Øral	1444.19 mg/kg
Dermal	2586.3 mg/kg

#### Other information

Causes digestive tract burns.

# Section 12. Ecological information

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#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
	Acute EC10 3.1 mg/l	Fish	72 hours
	Acute EC50 0.5 mg/l	Algae	72 hours

#### Persistence and degradability

### Section 12. Ecological information

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

#### **Bioaccumulative potential**

Not available.

<u>Mobility in soil</u>		
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 minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	UN	IMDG	IATA
UN number	UN3066	UN3066	UN3066
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	8	8	8
Packing group	I	II	Π
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(dibutyltin di(acetate))	Not applicable.

#### **Additional information**

UN	: None identified.
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.

### 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

#### International regulations

Montreal Protocol

Not listed.

1 Batama

Stockholm Convention on Persistent Organic Pollutants Not listed.

### Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 21 March 2024
Date of previous issue	: 11/29/2023
Version	: 13.01
Prepared by	: EHS
≸ey to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = 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) UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 5	Calculation method
SKIN CORROSION/IRRITATION - Category 1B	Calculation method
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	Calculation method
SKIN SENSITISATION - Category 1	Calculation method
GERM CELL MUTAGENICITY - Category 2	Calculation method
REPRODUCTIVE TOXICITY - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	Calculation method

**V** Indicates information that has changed from previously issued version.

Notice to reader

### Section 16. Other information

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 us, 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.

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