# SAFETY DATA SHEET

Date of issue/Date of revision

: 2 November 2022

Version : 11.01

**Denmark** 

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

<b>1.1 Product identifier</b>	
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Product name	:	SIGMAGLIDE 890 HARDENER
Product code	:	00236468

Other means of identification

Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against		
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Product is not intended, labelled or packaged for consumer use.	

# 1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone number

# National advisory body/Poison Centre

- **Telephone number**
- : Poison Information Centre; emergency telephone, public + 45 82 12 12 12 (health sector +45 35 31 55 55)

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture			
Product definition	: Mixture		
Classification accordin	g to Regulation (EC) No.	<u>. 1272/2008 [CLP/GHS]</u>	
Flam. Liq. 3, H226			
Acute Tox. 4, H302			
Acute Tox. 4, H312			
Acute Tox. 3, H331			
Skin Irrit. 2, H315			
Eye Dam. 1, H318			
Skin Sens. 1, H317			
Muta. 2, H341			
Repr. 1B, H360FD			
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# **SECTION 2: Hazards identification**

STOT SE 2, H371 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Hazard pictograms		
Signal word	: Danger	
Hazard statements	<ul> <li>Flammable liquid and vapour. Harmful if swallowed or in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic if inhaled. May cause respiratory irritation. Suspected of causing genetic defects. May damage fertility. May damage the unborn child. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.</li> </ul>	
Precautionary statements		
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away f heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Av release to the environment.	
Response	: Collect spillage.	
Storage	: Store in a well-ventilated place. Keep container tightly closed.	
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national an international regulations.</li> <li>P280, P210, P273, P391, P403 + P233, P501</li> </ul>	d
Hazardous ingredients	pentane-2,4-dione tetraethyl silicate dibutylbis(pentane-2,4-dionato-O,O')tin	
Supplemental label elements	: Not applicable.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to professional users.	
Special packaging requiren	nents	
Containers to be fitted with child-resistant fastenings	: Not applicable.	
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SECTION 2: Hazards identification		
Tactile warning of danger         Not applicable.		
2.3 Other hazards		

Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
pentane-2,4-dione	REACH #: 01-2119458968-15 EC: 204-634-0 CAS: 123-54-6 Index: 606-029-00-0	≥50 - ≤75	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331	ATE [Oral] = 570 mg/ kg ATE [Dermal] = 790 mg/kg ATE [Inhalation (vapours)] = 5.1 mg/l	[1]
tetraethyl silicate	REACH #: 01-2119496195-28 EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0	≥25 - ≤50	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
dibutylbis(pentane- 2,4-dionato-O,O')tin	REACH #: 01-2119557817-24 EC: 245-152-0 CAS: 22673-19-4 Index: 650-056-00-0	≥1.0 - <5.0	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360FD STOT SE 1, H370 STOT RE 1, H372 (immune system) Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1864 mg/ kg M [Acute] = 1 M [Chronic] = 1	[1]

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

# SUB codes represent substances without registered CAS Numbers.

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# **SECTION 4: First aid measures**

## 4.1 Description of 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	<ul> <li>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.</li> </ul>
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.

#### **4.2 Most important symptoms and effects, both acute and delayed**

Potential acute health effects	
Eye contact :	Causes serious eye damage.
Inhalation :	Toxic if inhaled. May cause respiratory irritation.
Skin contact :	Harmful in contact with skin. May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion :	Harmful if swallowed. May cause damage to organs following a single exposure if swallowed.
Over-exposure signs/sympton	<u>ns</u>
Eye contact :	Adverse symptoms may include the following: pain watering redness
Inhalation :	Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact :	Adverse symptoms may include the following: pain or irritation redness dryness cracking 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

### 4.3 Indication of any immediate medical attention and special treatment needed

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#### Conforms to Regulation (EC) No. 1907/2006 (REACH) Annex II leti. (ELI)

Conforms to Regulation (EC 2020/878	b) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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SECTION 4: First aid	d measures
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	nting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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 combustion products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to Europear standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6:** Accidental release measures

6.1 Personal precautions, pro	tective 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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 i Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 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.

# 6.3 Methods and material for containment and cleaning up

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<b>SECTION 6: A</b>	ccidental release m	neasures	
Small spill	explosion-proc or if water-insc	hout risk. Move containers from spill are of equipment. Dilute with water and mop oluble, absorb with an inert dry material ar iner. Dispose of via a licensed waste dis	up if water-soluble. Alternatively, nd place in an appropriate waste
Large spill	explosion-proc sewers, water treatment plan combustible, a place in contai	thout risk. Move containers from spill are of equipment. Approach the release from courses, basements or confined areas. V t or proceed as follows. Contain and coll absorbent material e.g. sand, earth, vermi ner for disposal according to local regular I contractor. Contaminated absorbent ma spilt product.	upwind. Prevent entry into Wash spillages into an effluent ect spillage with non- culite or diatomaceous earth and tions. Dispose of via a licensed
6.4 Reference to oth sections	See Section 8	for emergency contact information. for information on appropriate personal p 3 for additional waste treatment information	• •

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 7.1 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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.
7.2 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 a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidising materials. 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.

#### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
tetraethyl silicate	Working Environment Authority (Denmark, 6/2021). TWA: 44 mg/m³ 8 hours. TWA: 5 ppm 8 hours.
procedures atmos the ve protect followi assess values atmos expos atmos measu	product contains ingredients with exposure limits, personal, workplace phere or biological monitoring may be required to determine the effectiveness of ntilation or other control measures and/or the necessity to use respiratory tive equipment. Reference should be made to monitoring standards, such as the ing: European Standard EN 689 (Workplace atmospheres - Guidance for the sment of exposure by inhalation to chemical agents for comparison with limit and measurement strategy) European Standard EN 14042 (Workplace pheres - Guide for the application and use of procedures for the assessment of ure to chemical and biological agents) European Standard EN 482 (Workplace pheres - General requirements for the performance of procedures for the urement of chemical agents) Reference to national guidance documents for the determination of hazardous substances will also be required.

#### **DNELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
pentane-2,4-dione	DNEL	Long term Oral	7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	12 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	84 mg/m <sup>3</sup>	Workers	Systemic
tetraethyl silicate	DNEL	Short term Dermal	3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	14 mg/m³	General population	Local
	DNEL	Long term Inhalation	14 mg/m³	General population	Local
	DNEL	Short term Inhalation	14 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	14 mg/m³	General population	Systemic
	DNEL	Short term Dermal	56 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	56 mg/kg bw/day	Workers	Systemic
dibutylbis(pentane- 2,4-dionato-O,O')tin	DNEL	Long term Oral	0.002 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.003 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Oral	0.01 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.01 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	0.02 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	0.07 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.08 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.2 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	1 mg/kg bw/day	Workers	Systemic

## **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
pentane-2,4-dione	-	Fresh water	0.026 mg/l	-
	-	Fresh water sediment	0.155 mg/kg dwt	-
	-	Marine water	0.0026 mg/l	-
	-	Marine water sediment	0.0155 mg/kg dwt	-
	-		0.01582 mg/kg dwt	-
	-	Sewage Treatment Plant		-

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# **SECTION 8: Exposure controls/personal protection**

8.2 Exposure controls		
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	ures	
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	1	Chemical splash goggles and face shield. Use eye protection according to EN 166.
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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves		butyl rubber
Body protection	:	
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. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
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.

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# **SECTION 9: Physical and chemical properties**

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

9.1 Information on basic physic	al and	l chemical properties
<u>Appearance</u>		
Physical state	: L	iquid.
Colour	: 0	Clear
Odour	: A	vromatic.
Odour threshold	: N	lot available.
Melting point/freezing point	d	Nay start to solidify at the following temperature: 25.1°C (77.2°F) This is based on ata for the following ingredient: dibutylbis(pentane-2,4-dionato-O,O')tin. Weighted verage: -52.72°C (-62.9°F)
Initial boiling point and boiling range	: >	37.78°C
Flammability	: N	lot available.
Upper/lower flammability or explosive limits	: 0	Greatest known range: Lower: 1.3% Upper: 23% (tetraethyl silicate)
Flash point	: (	Closed cup: 30°C
Auto-ignition temperature	: 3	35°C (635°F)
Decomposition temperature	: 8	Stable under recommended storage and handling conditions (see Section 7).
рН	: N	lot applicable. insoluble in water.
Viscosity	: K	(inematic (40°C): >21 mm²/s
Solubility(ies)	:	
Media		Result
cold water		Not soluble

Partition coefficient: n-octanol/ : Not applicable. water

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#### Vapour pressure

			Vapor	ur Press	sure at 20°C	Vap	our pres	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		pentane-2,4-dione	6.98	0.93				
Evaporation rate	:	Not available.						
Relative density	:	0.97						
Vapour density	:	Highest known valu (Air = 1)	e: 7.22 (A	lir = 1)	(tetraethyl silic	ate). We	eighted av	verage: 5.16
Explosive properties	:	The product itself is vapour or dust with		,	t the formation	of an ex	plosible n	nixture of
Oxidising properties	:	Product does not pr	esent an o	oxidizing	j hazard.			
Particle characteristics								
Median particle size	:	Not applicable.						
9.2 Other information								

No additional information.

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OFOTION 40. Otability and reactivity						

# SECTION 10: Stability and reactivity

	-	_
10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Product/ingredient name Result Species Dose Exposure						
pentane-2,4-dione LC50 Inhalation Vapour Rat 5.1 mg/l 4 hours						
LD50 Dermal Rat 790 mg/kg -					-	
LD50 Oral Rat 570 mg/kg -					-	
tetraethyl silicate		LC50 Inhalation Dusts and mists	Rat	10 to 16 mg/l	4 hours	
		LD50 Dermal	Rabbit	5.878 g/kg	-	
LD50 Oral Rat 6270 mg/kg -						
dibutylbis(pentane-2,4-dionato-O,O')tin LD50 Dermal Rat >2000 mg/kg -					-	
LD50 Oral Rat 1864 mg/kg -						
<b>Conclusion/Summary</b> : There are no data available on the mixture itself.						
Irritation/Corrosion						
<b>Conclusion/Summary</b>						
Skin : There are no data available on the mixture itself.						
Eyes :	There are r	no data available on the mixture	itself.			
Respiratory :	There are r	no data available on the mixture	itself.			

:	There are no	data available	on the mixture	e itself.
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		÷	There are	no data	available	on the	mixture	itself.
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: There are no data available on the mixture itself.

- **Conclusion/Summary** : There are no data available on the mixture itself. **Carcinogenicity**
- **Conclusion/Summary** : There are no data available on the mixture itself.
- **Reproductive toxicity Conclusion/Summary** : There are no data available on the mixture itself.

**Sensitisation** 

Respiratory **Mutagenicity** 

Skin

**Conclusion/Summary** 

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# **SECTION 11: Toxicological information**

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	Category 3 Category 1	-	Respiratory tract irritation -

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs	
dibutylbis(pentane-2,4-dionato-O,O')tin	Category 1	-	immune system	

## **Aspiration hazard**

Not available.

Inhalation

Ingestion

Information on likely	: Not available.
routes of exposure	

#### Potential acute health effects

: Toxic if inhaled.	May cause	respiratory	irritation.
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- : Harmful if swallowed. May cause damage to organs following a single exposure if swallowed.
- **Skin contact** : Harmful in contact with skin. May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
- **Eye contact** : Causes serious eye damage.

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

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing 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
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	: Adverse symptoms may include the following: pain watering redness

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Eng	lish	(GB)
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# **SECTION 11: Toxicological information**

		9
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	1	Suspected of causing genetic defects.
Reproductive toxicity	:	May damage fertility. May damage the unborn child.
Other information	:	Not available.

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

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

#### 12.2 Persistence and degradability

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

#### 12.3 Bioaccumulative potential

	Potential
-	low low
	-

## 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

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# **SECTION 12: Ecological information**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

# ProductMethods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal<br/>of this product, solutions and any by-products should at all times comply with the<br/>requirements of environmental protection and waste disposal legislation and any<br/>regional local authority requirements. Dispose of surplus and non-recyclable products<br/>via a licensed waste disposal contractor. Waste should not be disposed of untreated to<br/>the sewer unless fully compliant with the requirements of all authorities with jurisdiction.Hazardous waste: Yes.

#### European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	·

#### Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)		
Container	15 01 06	mixed packaging	
Special precautions	taken when l Empty conta residues may Do not cut, w	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. veld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.	

# 14. Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	3	3	3	3
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# **14. Transport information**

14.4 Packing group			III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(dibutylbis(pentane- 2,4-dionato-O,O')tin)	Not applicable.

#### **Additional information**

ADR/RID	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.		
Tunnel code	: (D/E)		
ADN	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ .		
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.		
14.6 Special pre- user	cautions for : 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.		

 14.7 Maritime transport in
 : Not applicable.

 bulk according to IMO
 instruments

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name		Date of revision
Toxic to reproduction	dibutylbis(pentane-2,4-dionato-O,O')tin	D(2020) 4578-DC	6/25/2020

Annex XVII - Restrictions : Restricted to professional users.

on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

# Ozone depleting substances (1005/2009/EU)

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

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SECTION 15: Regulatory inform	nation	
Danger criteria		
Category		
H2		
P5c		
E2		
National regulations		

E2	
National regulations Product registration number	: PR-1738227
Danish fire class	: II-1
MAL-code	: 5-3
Protection based on MAL	: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:
	<b>General:</b> Gloves must be worn for all work that may result in soiling. Apron/coveralls/ protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be wo in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.
	In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.
	MAL-code: 5-3 <b>Application:</b> When spraying in new* booths if the operator is outside the spray zone. During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabi and spray-booth type where the operator is working inside the spray zone. When usir scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility spray booth or spray cabin.
	- Air-supplied full mask must be worn.
	When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins booths of the existing* facility type, if the operator is inside the spray zone. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.
	- Air-supplied full mask and coveralls must be worn.
	When spraying in existing* spray booths, if the operator is outside the spray zone.
	- Air-supplied full mask, arm protectors and apron must be worn.
	During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

Conforms to Regulation (EC) No. 1907/2006 (REACH)	Annex II, as amended by Commission Regulation (EU)
2020/878	

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# **SECTION 15: Regulatory information**

	<b>Drying:</b> Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.
	<b>Polishing:</b> When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.
	<b>Caution</b> The regulations contain other stipulations in addition to the above.
	*See Regulations.
Restrictions on use	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
List of undesirable substances	: Not listed
15.2 Chemical safety assessment	: No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

## Abbreviations and acronyms

ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway IMDG = International Maritime Dangerous Goods IATA = International Air Transport Association

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H302	Calculation method
Acute Tox. 4, H312	Calculation method
Acute Tox. 3, H331	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Muta. 2, H341	Calculation method
Repr. 1B, H360FD	Calculation method
STOT SE 2, H371	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

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H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H302 H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H312	Causes severe skin burns and eye damage.
H315	Causes severe skin burns and eye damage. Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye unitage.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H335 H341	Suspected of causing genetic defects.
H360FD	
H300FD H370	May damage fertility. May damage the unborn child. Causes damage to organs.
H370	May cause damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	
п <i>зг</i> з	May cause damage to organs through prolonged or repeated
H400	exposure. Very toxic to aquatic life.
H400	Very toxic to aquatic life with long lasting effects.
H410	Toxic to aquatic life with long lasting effects.
	Toxic to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE
STOT RE 2	Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE
STOT SE 1	Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
STOT SE 2	Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
STOT SE 3	Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
	Category 3
History	
Date of issue/ Date of : 2 Novemi revision	ber 2022
Date of previous issue : 2 Novem	ber 2022
Prepared by : EHS	
Version : 11.01	
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# **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.