# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 11 January 2017 Version



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

1.1 Product identifier	
Product name	: PSX 700 HARDENER
Product code	: 00289940
Other means of identification	: Not available.
1.2 Relevant identified uses	s of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
<b>1.3 Details of the supplier o</b> PPG Coatings SPRL/BVBA	
Tweemontstraat 104	
B-2100 Deurne	
Belgium Telephone +32-33606311	
Fax +32-33606435	
e-mail address of person responsible for this SDS	: PMC.Safety@PPG.com
responsible for this SDS	
responsible for this SDS 1.4 Emergency telephone n	

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360FD (Fertility and Unborn child) STOT SE 2, H371 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.

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## **SECTION 2: Hazards identification**

2.2 Label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	Flammable liquid and vapour. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May damage fertility. May damage the unborn child. Suspected of causing genetic defects. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.
Response	:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	Store in a well-ventilated place. Keep cool.
Disposal	1	Not applicable.
Hazardous ingredients	1	aminopropyltriethoxysilane 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 requirem		
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Other hazards which do not result in classification	:	Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

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

3.2 Mixtures :	Mixture			
			<b>Classification</b>	
Product/ingredient name	Identifiers	% by weight	Regulation (EC) No. 1272/2008 [CLP]	Туре
<b>3</b> -aminopropyltriethoxysilane	REACH #: 01-2119480479-24 EC: 213-048-4 CAS: 919-30-2 Index: 612-108-00-0	≥90	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	[1]
dibutylbis(pentane-2,4-dionato-O, O')tin	EC: 245-152-0 CAS: 22673-19-4	≥5.0 - <10	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360FD (Fertility and Unborn child) STOT SE 1, H370 STOT RE 1, H372 (immune system) (oral) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1.0 - ≤5.0	(M=1) Flam. Liq. 2, H225	[2]
			See Section 16 for the full text of the H statements declared above.	

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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

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	<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.
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	No known significant effects or critical hazards.	
Skin contact	Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.	
Ingestion	Harmful if swallowed. Corrosive to the digestive tract. Causes burns.	
Over-exposure signs/sympto		
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 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 immediat	edical attention and special treatment needed	
Notes to physician	n case of inhalation of decomposition products in a fire, symptoms may be delaye The exposed person may need to be kept under medical surveillance for 48 hours	
Specific treatments	No specific treatment.	

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## **SECTION 5: Firefighting 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 f	irom	the substance or mixture
Hazards from the substance or mixture	:	Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. 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 nitrogen oxides metal oxide/oxides Formaldehyde.
5.3 Advice for firefighters		
Special precautions for fire fighters	<del>)</del> - :	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 European standard EN 469 will provide a basic level of protection for chemical incidents.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	te	ctive 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 in 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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## **SECTION 6: Accidental release measures**

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

## **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

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## **SECTION 7: Handling and storage**

#### 7.3 Specific end use(s)

- **Recommendations** : Not available.
  - : Not available.
- Industrial sector specific solutions
- **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	
dībutylbis(pentane-2,4-dionato-O,O')tin ethanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 0.2 mg/m <sup>3</sup> , (as Sn) 15 minutes. TWA: 0.1 mg/m <sup>3</sup> , (as Sn) 8 hours. EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 1920 mg/m <sup>3</sup> 8 hours. TWA: 1000 ppm 8 hours.	
procedures atmosphere of of the ventilat protective eq the following: the assessme limit values a atmospheres exposure to of (Workplace a for the measu	t contains ingredients with exposure limits, personal, workplace or biological monitoring may be required to determine the effectiveness tion or other control measures and/or the necessity to use respiratory uipment. Reference should be made to monitoring standards, such as a European Standard EN 689 (Workplace atmospheres - Guidance for ent of exposure by inhalation to chemical agents for comparison with nd measurement strategy) European Standard EN 14042 (Workplace - Guide for the application and use of procedures for the assessment of chemical and biological agents) European Standard EN 482 atmospheres - General requirements for the performance of procedures urement of chemical agents) Reference to national guidance or methods for the determination of hazardous substances will also be	
DNELs - Not available.		
PNECs		
PNECs - Not available.		
8.2 Exposure controls		
controls ventilation or contaminant also need to	h adequate ventilation. Use process enclosures, local exhaust other engineering controls to keep worker exposure to airborne is below any recommended or statutory limits. The engineering controls keep gas, vapour or dust concentrations below any lower explosive explosion-proof ventilation equipment.	
Individual protection measures		

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<b>SECTION 8: Expos</b>	ure 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	: 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 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.
Gloves	: nitrile neoprene
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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. 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.

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

9.1 Information on basic physic	al and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Colourless.
Odour	: Amine-like.
Odour threshold	: Not available.
рН	insoluble in water.
Melting point/freezing point	

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

	,	following temperature: 25.1°C (77.2°F) This is based ngredient: dibutylbis(pentane-2,4-dionato-O,O')tin. (40.3°F)
Initial boiling point and boiling range	78°C	
Flash point	ed cup: 41.4°C	
Evaporation rate	ethanol) compared v	vith butyl acetate
Material supports combustion.		
Flammability (solid, gas)	b	
Upper/lower flammability or explosive limits	er: 3.3% er: 19%	
Vapour pressure	est known value: 5.7 age: 0.84 kPa (6.3 m	kPa (43 mm Hg) (at 20°C) (ethanol). Weighted m Hg) (at 20°C)
Vapour density	est known value: 1.6	(Air = 1) (ethanol).
Relative density		
Bulk density ( g/cm <sup>3</sup> )	3	
Solubility(ies)	luble in the following	materials: cold water.
Partition coefficient: n-octanol/ water	applicable.	
Auto-ignition temperature	est known value: 400	°C (752°F) (dibutylbis(pentane-2,4-dionato-O,O')tin).
Decomposition temperature	le under recommend	led storage and handling conditions (see Section 7).
Viscosity	matic (40°C): >0.21 (	cm²/s
Viscosity	100 s (ISO 6mm)	
Explosive properties	luct does not present	an explosion hazard.
Oxidising properties	luct does not present	an oxidizing hazard.

#### 9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

English (GB)	United Kingdom (UK)	<b>9</b> /1
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides	
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.	
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.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur	
10.2 Chemical stability	: The product is stable.	
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	

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## **SECTION 11: Toxicological information**

#### **11.1 Information on toxicological effects**

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
3-aminopropyltriethoxysilane	LD50 Dermal	Rabbit	4 g/kg	-
	LD50 Oral	Rat	1.57 g/kg	-
dibutylbis(pentane-2, 4-dionato-O,O')tin	LD50 Oral	Rat	>2 g/kg	-
ethanol	LC50 Inhalation Vapour LD50 Oral	Rat Rat	124700 mg/m³ 7 g/kg	4 hours -

#### **Conclusion/Summary** : Not available.

#### Acute toxicity estimates

Route	ATE value
Oral	1380.1 mg/kg

Irritation/Corrosion	
<b>Conclusion/Summary</b>	: Not available.
Sensitisation	
<b>Conclusion/Summary</b>	: Not available.
Mutagenicity	
<b>Conclusion/Summary</b>	: Not available.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: Not available.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Not available.
Teratogenicity	
<b>Conclusion/Summary</b>	: Not available.

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

Product/ingredient name	Category	Route of exposure	Target organs
dibutylbis(pentane-2,4-dionato-O,O')tin	Category 1	Not determined	Not determined

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

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

#### Aspiration hazard

Not available.

Information on likely : Not available. routes of exposure Potential acute health effects

Inhalation	: No known significant effects or critical hazards.	
Ingestion	: Harmful if swallowed. Corrosive to the digestive tract. Causes burns.	
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.	
Eye contact	tact : Causes serious eye damage.	
Symptoms related to the physical, chemical and toxicological characteristics		

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## **SECTION 11: Toxicological information**

ogical information
: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
: Adverse symptoms may include the following: pain watering redness
cts as well as chronic effects from short and long-term exposure
: Not available.
<u>cts</u>
: Not available.
: 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.
: No known significant effects or critical hazards.
: Suspected of causing genetic defects.
: May damage the unborn child.
: No known significant effects or critical hazards.
: May damage fertility.
: Not available.

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### SECTION 11: Toxicological information

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 3-aminopropyltriethoxysilane, dibutylbis(pentane-2,4-dionato-O,O')tin. May produce an allergic reaction.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>e</b> thanol	Acute EC50 1580 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Conclusion/Summary	• Not available	·	

onclusion/Summary

#### 12.2 Persistence and degradability

#### **Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanol	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
3-aminopropyltriethoxysilane	1.7	3.4	low
ethanol	-0.31	-	low

#### 12.4 Mobility in soil

Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

## 12.5 Results of PBT and vPvB assessment

- PBT : Not applicable.
- vPvB : Not applicable.
- 12.6 Other adverse effects : No known significant effects or critical hazards.

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## **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**

<u>Product</u>	
Methods of disposal	: 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.

Hazardous waste : Yes.

|--|

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

#### 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 Empty cont residues ma container. I thoroughly i	al 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. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with <i>y</i> ays, drains and sewers.	

## 14. Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN3469	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)
14.4 Packing group	III	=	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.

English (	GB)
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## **14. Transport information**

ADN	<ul> <li>The product is only regulated as an environmentally hazardous substance when transported in tank vessels.</li> </ul>
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.
14.6 Special user	<b>precautions for</b> : <b>Transport within user's premises:</b> 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 Transport in bulk: Not applicable.according to Annex II of<br/>Marpol and the IBC Code

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Restricted to professional users. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other EU regulations

Product/ingredient name	Carcinogenic effects	•	Developmental effects	Fertility effects
dibutylbis(pentane-2, 4-dionato-O,O')tin	-	Muta. 2, H341		Repr. 1B, H360F (Fertility)

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

Category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E2: Hazardous to the aquatic environment - Chronic 2 6: Flammable (R10)

9ii: Toxic for the environment

# 15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

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### **SECTION 16: Other information**

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>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</li> </ul>

#### 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
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Muta. 2, H341	Calculation method
Repr. 1B, H360FD (Fertility and Unborn child)	Calculation method
STOT SE 2, H371	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.
H371	May cause damage to organs.
H372 (oral)	Causes damage to organs through prolonged or repeated exposure if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

#### Full text of classifications [CLP/GHS]

English (GB)	United Kingdom (UK)	15/16
STOT RE 1, H372 (oral)	SPECIFIC TARGET ORGAN TOXICITY - REPEA	TED EXPOSURE
Skin Sens. 1, H317	SKIN SENSITISATION - Category 1	
Skin Corr. 1C, H314	SKIN CORROSION/IRRITATION - Category 1C	
Skin Corr. 1B, H314	SKIN CORROSION/IRRITATION - Category 1B	
	18	orma) catogory
Repr. 1B, H360FD	REPRODUCTIVE TOXICITY (Fertility and Unborn	child) - Category
Muta. 2, H341	GERM CELL MUTAGENICITY - Category 2	
Flam. Lig. 3, H226	FLAMMABLE LIQUIDS - Category 3	
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2	5,
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/EYE IRRITATION - Cate	egory 1
Aquatic Chronic 2, H411	LONG-TERM AQUATIC HAZARD - Category 2	
Aquatic Chronic 1, H410	LONG-TERM AQUATIC HAZARD - Category 1	
Aquatic Acute 1, H400	ACUTE AQUATIC HAZARD - Category 1	
Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4	

Date of issue/Date of revision : 11 January 2017
(oral) - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE
- Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2

revision	,
Date of previous issue	: 13 November 2016
Prepared by	: EHS
Version	: 15.05

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