

# SAFETY DATA SHEET



Date of issue/Date of revision

: 9 May 2024

Version

: 2

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

### 1.1 Product identifier

Product name : PSX ONE BLACK

Product code : 00336200

Product type : Liquid.

Other means of identification : Not available.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial 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

#### Supplier

+31 20 4075210

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### Classification according to UK CLP/GHS

Flam. Liq. 2, H225

Skin Corr. 1B, H314

Eye Dam. 1, H318

Skin Sens. 1, H317

Aquatic Chronic 2, H411

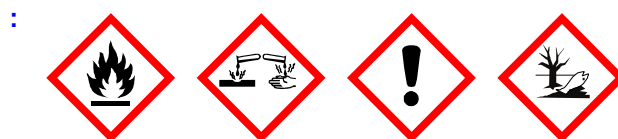
The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

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

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## SECTION 2: Hazards identification

**Hazard statements** : Highly flammable liquid and vapour.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Toxic to aquatic life with long lasting effects.

### Precautionary statements

**Prevention** : Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.

**Response** : Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.  
P280, P210, P273, P391, P304 + P310, P501

**Supplemental label elements** : Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : 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** : Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
trimethoxy(methyl)silane	REACH #: 01-2119517436-40 EC: 214-685-0 CAS: 1185-55-3	≥5.0 - ≤10	Flam. Liq. 2, H225 Skin Sens. 1B, H317	[1]
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	EC: 219-784-2 CAS: 2530-83-8	≥5.0 - ≤10	Eye Dam. 1, H318 Aquatic Chronic 3, H412	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373	[1] [2]

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<b>SECTION 3: Composition/information on ingredients</b>				
reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-propionyloxypoly(oxyethylene) 3-aminopropyltriethoxysilane	CAS: 100-41-4 Index: 601-023-00-4  EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	≥1.0 - ≤5.0	(hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
trimethoxyvinylsilane	REACH #: 01-2119480479-24 EC: 213-048-4 CAS: 919-30-2 Index: 612-108-00-0	≥1.0 - ≤5.0	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	[1]
triethoxyoctylsilane	EC: 220-449-8 CAS: 2768-02-7 Index: 014-049-00-0	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Sens. 1B, H317 Skin Irrit. 2, H315	[1]
Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched, phosphates	EC: 220-941-2 CAS: 2943-75-1 CAS: 68412-53-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	[1]
2-ethylaminoethanol	EC: 203-797-5 CAS: 110-73-6	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318	[1]
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≥1.0 - <3.0	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
methanol	REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≤1.0	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	[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	<0.30	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 (M=1)	[1] [2]
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	EC: 255-437-1 CAS: 41556-26-7	≤0.30	Aquatic Chronic 1, H410 (M=1) Skin Sens. 1, H317 Repr. 2, H361 Aquatic Acute 1, H400 (M=1)	[1]
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	EC: 280-060-4 CAS: 82919-37-7	≤0.30	Aquatic Chronic 1, H410 (M=1) Skin Sens. 1, H317 Repr. 2, H361	[1]

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### SECTION 3: Composition/information on ingredients

Nonylphenol, branched, ethoxylated	EC: 500-209-1 CAS: 68412-54-4	≤0.30	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	[1] [3]
dibutyltin dilaurate	REACH #: 01-2119496068-27 EC: 201-039-8 CAS: 77-58-7 Index: 050-030-00-3	<0.30	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360FD STOT SE 1, H370 (thymus) STOT RE 1, H372 (immune system) (oral) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [2]
2-hydroxyethyl methacrylate	EC: 212-782-2 CAS: 868-77-9 Index: 607-124-00-X	≤0.30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 <b>See Section 16 for the full text of the H statements declared above.</b>	[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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-211955267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance of equivalent concern

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

**SUB codes represent substances without registered CAS Numbers.**

### 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** : 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** : 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.

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## SECTION 4: First aid measures

### 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** : Corrosive to the digestive tract. Causes burns.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
dryness  
cracking  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## 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 from the substance or mixture

- Hazards from the substance or mixture** : Highly 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  
nitrogen oxides  
metal oxide/oxides  
Formaldehyde.

### 5.3 Advice for firefighters

- 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. 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.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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**

- 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 (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.

**6.4 Reference to other sections**

- : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 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. 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.

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**SECTION 7: Handling and storage****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.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

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).

**Occupational exposure limits**

Product/ingredient name	Exposure limit values
xylene	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p- or mixed isomers] Absorbed through skin.</b> STEL: 441 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
ethylbenzene	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b> STEL: 552 mg/m <sup>3</sup> 15 minutes. STEL: 125 ppm 15 minutes. TWA: 441 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.
methanol	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b> STEL: 333 mg/m <sup>3</sup> 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours.
dibutylbis(pentane-2,4-dionato-O,O')tin	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [tin compounds, organic, except cyhexatin (ISO)] Absorbed through skin.</b> STEL: 0.2 mg/m <sup>3</sup> , (as Sn) 15 minutes. TWA: 0.1 mg/m <sup>3</sup> , (as Sn) 8 hours.
dibutyltin dilaurate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [tin compounds, organic, except cyhexatin (ISO)] Absorbed through skin.</b> STEL: 0.2 mg/m <sup>3</sup> , (as Sn) 15 minutes. TWA: 0.1 mg/m <sup>3</sup> , (as Sn) 8 hours.

**Biological exposure indices**

Product/ingredient name	Exposure indices
xylene	XYLENES

**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.

**DNELs/DMELs**

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

Product/ingredient name	Type	Exposure	Value	Population	Effects	
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local	
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic	
	trimethoxy(methyl)silane	DNEL	Long term Oral	0.26 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	3.6 mg/kg bw/day	Workers	Systemic
		DNEL	Long term Inhalation	6.25 mg/m <sup>3</sup>	General population	Systemic
DNEL		Long term Dermal	7.2 mg/kg bw/day	General population	Systemic	
DNEL		Long term Inhalation	25.6 mg/m <sup>3</sup>	Workers	Systemic	
DNEL		Short term Inhalation	26400 mg/m <sup>3</sup>	General population	Systemic	
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	DNEL	Short term Inhalation	147 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Dermal	21 mg/kg bw/day	Workers	Systemic	
ethylbenzene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	5 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	10 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	17 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Inhalation	70.5 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Inhalation	26400 mg/m <sup>3</sup>	General population	Systemic	
	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local	
	DMEL	Short term Inhalation	884 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	15 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Inhalation	77 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	0.35 mg/m <sup>3</sup>	Workers	Systemic	
reaction mass of α-3-(3-(2H-benzotriazol- 2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	DNEL	Long term Dermal	0.5 mg/kg	Workers	Systemic	
	DNEL	Long term Inhalation	0.085 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Dermal	0.25 mg/kg	[Consumers]	Systemic	
	DNEL	Long term Oral	0.025 mg/kg	General population	Systemic	
	DNEL	Long term Oral	0.025 mg/kg bw/day	[Consumers]	Systemic	
	DNEL	Long term Dermal	0.025 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	0.085 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Dermal	0.25 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	0.35 mg/m <sup>3</sup>	Workers	Systemic	
	3-aminopropyltriethoxysilane	DNEL	Long term Oral	1 mg/kg bw/day	General population	Systemic
DNEL		Long term Dermal	1 mg/kg bw/day	General population	Systemic	
DNEL		Long term Dermal	2 mg/kg bw/day	Workers	Systemic	



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

trimethoxyvinylsilane	DNEL	Long term Inhalation	3.5 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Inhalation	14 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Oral	0.63 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	0.63 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	0.91 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	6.8 mg/m <sup>3</sup>	General population	Systemic	
triethoxyoctylsilane	DNEL	Long term Inhalation	27.6 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Inhalation	54.4 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Short term Inhalation	73.6 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Oral	1.25 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	1.25 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	2.5 mg/kg bw/day	Workers	Systemic	
2-ethylaminoethanol	DNEL	Long term Inhalation	4.3 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Inhalation	17.6 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Oral	0.03 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	0.03 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	0.05 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Dermal	0.06 mg/kg bw/day	Workers	Systemic	
methanol	DNEL	Short term Oral	0.2 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Dermal	0.2 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	0.2 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Inhalation	0.3 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Short term Dermal	0.33 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	1.2 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Short term Oral	4 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Dermal	4 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Dermal	20 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Dermal	20 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	26 mg/m <sup>3</sup>	General population	Local	
	DNEL	Long term Inhalation	26 mg/m <sup>3</sup>	General population	Local	
	DNEL	Short term Inhalation	26 mg/m <sup>3</sup>	General population	Systemic	
	DNEL	Long term Inhalation	26 mg/m <sup>3</sup>	General population	Systemic	
	dibutylbis(pentane-2,4-dionato-O,O')tin	DNEL	Short term Inhalation	130 mg/m <sup>3</sup>	Workers	Local
		DNEL	Long term Inhalation	130 mg/m <sup>3</sup>	Workers	Local
DNEL		Short term Inhalation	130 mg/m <sup>3</sup>	Workers	Systemic	
DNEL		Long term Inhalation	130 mg/m <sup>3</sup>	Workers	Systemic	
DNEL		Long term Oral	0.002 mg/kg bw/day	General population	Systemic	
Nonylphenol, branched, ethoxylated		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	
	DNEL	Long term Inhalation	4.7 mg/m <sup>3</sup>	Workers	Systemic	
	dibutyltin dilaurate	DNEL	Long term Dermal	66.7 mg/kg bw/day	Workers	Systemic
		DNEL	Short term Dermal	2.08 mg/kg bw/day	Workers	Systemic
DNEL		Short term Dermal	0.5 mg/kg bw/day	General population	Systemic	
DNEL		Long term Oral	0.0031 mg/kg bw/day	General population	Systemic	
DNEL		Long term Inhalation	0.0046 mg/m <sup>3</sup>	General population	Systemic	
DNEL		Short term Oral	0.02 mg/kg bw/day	General population	Systemic	
DNEL		Long term Inhalation	0.02 mg/m <sup>3</sup>	Workers	Systemic	
DNEL		Short term Inhalation	0.04 mg/m <sup>3</sup>	General population	Systemic	
DNEL		Short term Inhalation	0.059 mg/m <sup>3</sup>	Workers	Systemic	
DNEL		Long term Dermal	0.16 mg/kg bw/day	General population	Systemic	
DNEL		Long term Dermal	0.43 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Dermal	0.5 mg/kg bw/day	General population	Systemic	

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

2-hydroxyethyl methacrylate	DNEL	Short term Dermal	2.08 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.39 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.45 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	4.9 mg/m <sup>3</sup>	Workers	Systemic

**PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
xylene	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Sewage Treatment Plant	6.58 mg/l	-
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg	-
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Fresh water	1 mg/l	Assessment Factors
	Marine water	0.1 mg/l	Assessment Factors
	Sewage Treatment Plant	10 mg/l	Assessment Factors
	Fresh water sediment	3.6 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.36 mg/kg dwt	Equilibrium Partitioning
	Soil	0.14 mg/kg dwt	Equilibrium Partitioning
ethylbenzene	Fresh water	0.1 mg/l	Assessment Factors
	Marine water	0.01 mg/l	Assessment Factors
	Sewage Treatment Plant	9.6 mg/l	Assessment Factors
	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
reaction mass of α-3-(3-(2H-benzotriazol- 2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly(oxyethylene)	Fresh water	0.0023 mg/l	-
	Marine water	0.00023 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	3.06 mg/kg dwt	-
	Marine water sediment	0.306 mg/kg dwt	-
	Soil	2 mg/kg	-
3-aminopropyltriethoxysilane	Fresh water	0.33 mg/l	Assessment Factors
	Marine water	0.033 mg/l	Assessment Factors
	Sewage Treatment Plant	13 mg/l	Assessment Factors
	Fresh water sediment	1.2 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.12 mg/kg dwt	Equilibrium Partitioning
	Soil	0.05 mg/kg dwt	Equilibrium Partitioning
methanol	Fresh water	20.8 mg/l	Assessment Factors
	Marine water	2.08 mg/l	Assessment Factors
	Sewage Treatment Plant	100 mg/l	Assessment Factors
	Fresh water sediment	77 mg/kg	Equilibrium Partitioning
	Marine water sediment	7.7 mg/kg	Equilibrium Partitioning
	Soil	100 mg/kg	Assessment Factors
dibutyltin dilaurate	Fresh water	0.000463 mg/l	Assessment Factors
	Fresh water sediment	0.05 mg/kg	-
	Marine water sediment	0.005 mg/kg	-
	Soil	0.0407 mg/kg	-
	Sewage Treatment Plant	100 mg/l	Assessment Factors
	Marine water	0.0000463 mg/l	Assessment Factors

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

**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 measures**

**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. 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.  
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.

**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.

**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 physical and chemical properties****Appearance**

**Physical state** : Liquid.  
**Colour** : Black.  
**Odour** : Characteristic.  
**Odour threshold** : Not available.

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## SECTION 9: Physical and chemical properties

- Melting point/freezing point** : May start to solidify at the following temperature: -8°C (17.6°F) This is based on data for the following ingredient: 2-ethylaminoethanol. Weighted average: -85.02°C (-121°F)
- Initial boiling point and boiling range** : >37.78°C (>100°F)
- Flammability (solid, gas)** : liquid
- Upper/lower flammability or explosive limits** : Greatest known range: Lower: 0.3% Upper: 13.5% (triethoxyoctylsilane)
- Flash point** : Closed cup: 19°C (66.2°F)
- Auto-ignition temperature** :

Ingredient name	°C	°F	Method
trimethoxyvinylsilane	224	435.2	ASTM E 659

- pH** : Not applicable.  
Not applicable. insoluble in water.
- Viscosity** : Kinematic (40°C): >21 mm<sup>2</sup>/s

**Solubility(ies)** :

Media	Result
cold water	Not soluble

- Miscible with water** : No.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Vapour pressure** :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
trimethoxy(methyl)silane	80.14	10.7				

- Relative density** : 1.06
- Vapour density** : Highest known value: 4.7 (Air = 1) (trimethoxy(methyl)silane). Weighted average: 3.94 (Air = 1)
- Explosive properties** : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
- Oxidising properties** : Product does not present an oxidizing hazard.
- Particle characteristics**
- Median particle size** : Not applicable.

## 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.

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**SECTION 10: Stability and reactivity**

**10.6 Hazardous decomposition products** : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
trimethoxy(methyl)silane	LC50 Inhalation Vapour	Rat	>42.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>9500 mg/kg	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	LD50 Oral	Rat	11685 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	>5.3 mg/l	4 hours
ethylbenzene	LD50 Oral	Rat	7.01 g/kg	-
	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-ω-hydroxypoly (oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly (oxyethylene)	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
3-aminopropyltriethoxysilane	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
trimethoxyvinylsilane	LC50 Inhalation Dusts and mists	Rat	>7.35 mg/l	4 hours
	LD50 Dermal	Rabbit	4 g/kg	-
2-ethylaminoethanol	LD50 Oral	Rat	1.57 g/kg	-
	LC50 Inhalation Vapour	Rat	16800 mg/m <sup>3</sup>	4 hours
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LD50 Dermal	Rabbit	3158 mg/kg	-
	LD50 Oral	Rat - Male	6899 mg/kg	-
methanol	LD50 Dermal	Rabbit	0.36 g/kg	-
	LD50 Oral	Rat	1 g/kg	-
dibutylbis(pentane-2,4-dionato-O,O')tin	LD50 Dermal	Rat	>3170 mg/kg	-
	LD50 Oral	Rat - Male, Female	3230 mg/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LD50 Oral	Rat	5600 mg/kg	-
	LD50 Dermal	Rat	>2000 mg/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LD50 Oral	Rat	1864 mg/kg	-
	LD50 Oral	Rat	3.125 g/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LD50 Oral	Rat	3.125 g/kg	-
	LD50 Oral	Rat	3.125 g/kg	-

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**SECTION 11: Toxicological information**

Nonylphenol, branched, ethoxylated	LD50 Oral	Rat	2.21 g/kg	-
dibutyltin dilaurate	LD50 Oral	Rat	2071 mg/kg	-
2-hydroxyethyl methacrylate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	5050 mg/kg	-

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

**Acute toxicity estimates**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
PSX ONE BLACK	11750.1	7546.1	N/A	70.4	N/A
xylene	4300	1700	N/A	11	N/A
trimethoxy(methyl)silane	11685	N/A	N/A	N/A	N/A
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	7010	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	N/A
3-aminopropyltriethoxysilane	1570	4000	N/A	N/A	N/A
trimethoxyvinylsilane	6899	3158	N/A	16.8	N/A
2-ethylaminoethanol	1000	360	N/A	N/A	N/A
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3230	N/A	N/A	N/A	N/A
methanol	100	300	64000	3	N/A
dibutylbis(pentane-2,4-dionato-O,O')tin	1864	N/A	N/A	N/A	N/A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3125	N/A	N/A	N/A	N/A
Nonylphenol, branched, ethoxylated	2210	N/A	N/A	N/A	N/A
dibutyltin dilaurate	2071	N/A	N/A	N/A	N/A
2-hydroxyethyl methacrylate	5050	N/A	N/A	N/A	N/A

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

**Conclusion/Summary** : Not available.

**Skin** : There are no data available on the mixture itself.

**Eyes** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

**Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
trimethoxy(methyl)silane	skin	Guinea pig	Sensitising
3-aminopropyltriethoxysilane	skin	Guinea pig	Sensitising

**Conclusion/Summary**

**Skin** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

**Mutagenicity**

**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.

**Teratogenicity**

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

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**SECTION 11: Toxicological information****Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
methanol	Category 1	-	-
dibutylbis(pentane-2,4-dionato-O,O')tin	Category 1	-	-
dibutyltin dilaurate	Category 1	-	thymus

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

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

**Aspiration hazard**

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

**Information on likely routes of exposure** : Not available.

**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** : Corrosive to the digestive tract. Causes burns.

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

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
dryness  
cracking  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

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## SECTION 11: Toxicological information

### Potential chronic health effects

Not available.

- Conclusion/Summary** : Not available.
- General** : 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** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
trimethoxy(methyl)silane [3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Acute LC50 >110 mg/l	Fish	96 hours
	Acute EC50 255 mg/l Fresh water	Algae	72 hours
ethylbenzene	Acute EC50 473 mg/l	Daphnia	48 hours
	Acute LC50 55 mg/l	Fish	96 hours
	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Ceriodaphnia dubia</i>	-
reaction mass of $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- $\omega$ -hydroxypoly(oxyethylene) and $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- $\omega$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	Chronic NOEC 0.78 mg/l	Daphnia	21 days
3-aminopropyltriethoxysilane	Acute LC50 >934 mg/l	Fish	96 hours
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	EC50 1.68 mg/l	Algae	72 hours
methanol	LC50 0.9 mg/l	Fish	96 hours
	Acute LC50 13 mg/l Fresh water	Fish - Trout	96 hours
dibutyltin dilaurate	EC50 0.463 mg/l	Daphnia	48 hours

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane ethylbenzene reaction mass of $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- $\omega$ -hydroxypoly(oxyethylene) and $\alpha$ -3-(3-	-	37 % - Not readily - 28 days	-	-
	-	79 % - Readily - 10 days	-	-
	OECD 301B Ready Biodegradability - CO2 Evolution Test	12 % - 28 days	-	-



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(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl propionyl- $\omega$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly (oxyethylene)				
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**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	-	-	Not readily
ethylbenzene	-	-	Readily
reaction mass of $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl- $\omega$ -hydroxypoly (oxyethylene) and $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl- $\omega$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly (oxyethylene)	-	-	Not readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
reaction mass of $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl- $\omega$ -hydroxypoly (oxyethylene) and $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl- $\omega$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly (oxyethylene)	5.9	-	High
3-aminopropyltriethoxysilane	1.7	3.4	Low
methanol	-0.77	-	Low
Nonylphenol, branched, ethoxylated	5.39	-	High
dibutyltin dilaurate	4.44	-	High
2-hydroxyethyl methacrylate	0.42	-	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

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

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**SECTION 12: Ecological information****12.6 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****Product**

**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 catalogue**

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	Waste catalogue
Container	15 01 06 mixed packaging

**Special precautions** : 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number</b>	UN3469	UN3469	UN3469	UN3469
<b>14.2 UN proper shipping name</b>	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
<b>14.3 Transport hazard class(es)</b>	3(8)	3(8)	3(8)	3(8)
<b>14.4 Packing group</b>	II	II	II	II
<b>14.5 Environmental hazards</b>	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
<b>Marine pollutant substances</b>	Not applicable.	Not applicable.	(HYDROXYPHENYL BENZOTRIAZOLE DERIVATIVE)	Not applicable.

**Additional information**

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**SECTION 14: Transport 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 ≤5 L or ≤5 kg.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**14.6 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.

**14.7 Transport in bulk according to IMO instruments** : Not available.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK (GB)/REACH****Annex XIV - List of substances subject to authorisation****Annex XIV**

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
☑ Substance of equivalent concern for environment	4-nonylphenol, branched and linear, ethoxylated substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof	Listed	43	1/1/2021

**Substances of very high concern**

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
☑ Toxic to reproduction Substance of equivalent concern for environment	dibutylbis(pentane-2,4-dionato-o,o')tin 4-nonylphenol, branched and linear, ethoxylated substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof	Candidate Candidate	- -	6/25/2020 6/20/2013

**Ozone depleting substances**

Not listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

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## SECTION 15: Regulatory information

### Seveso Directive

This product is controlled under the Seveso Directive.

### Danger criteria

<b>Category</b>
P5c E2

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

### Abbreviations and acronyms

- ✔ : ATE = Acute Toxicity Estimate
- GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = GB CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- SGG = Segregation Group
- vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

Classification	Justification
Flam. Liq. 2, H225 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	On basis of test data Calculation method Calculation method Calculation method Calculation method

### Full text of abbreviated H statements

✔ H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility. May damage the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.

### Full text of classifications

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**SECTION 16: Other information**

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
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - 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
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

**History**

**Date of issue/ Date of revision** : 9 May 2024

**Date of previous issue** : 7 November 2022

**Prepared by** : EHS

**Version** : 2

**Disclaimer**

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by 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.*