Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

# SAFETY DATA SHEET



# Hardtop Smart Pack Comp A

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

1.1 Product identifier		
Product name	: Hardtop Sma	rt Pack Comp A
Product code	: 18940	
Product description	: Paint.	
Product type	: Liquid.	
Other means of identification	: Not available.	
1.2 Relevant identified us	es of the substance	or mixture and uses advised against
Use in coatings - Industria	al use	
1.3 Details of the supplier	of the safety data s	heet
Jotun A/S		Jotun Paints (Europe) Ltd.
P.O.Box 2021		Stather Road
3202 Sandefjord		Flixborough, Scunthorpe
Norway		North Lincolnshire
Tel: + 47 33 45 70 00		DN15 8RR
Fax: +47 33 45 72 42		England
E-mail: SDSJotun@jotun.	no	
		Tel: +44 17 24 40 00 00
		Fax: +44 17 24 40 01 00
1.4 Emergency telephone	number	
National advisory body/	<u>Poison Centre</u>	
Telephone number	: Contact NHS	Direct; phone 0845 4647 or 111. Open 24/7.
Supplier		

Supplier Telephone number

: +47 33 45 70 00 Jotun Norway (head office)

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### **Classification according to UK CLP/GHS**

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 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

# **SECTION 2: Hazards identification**

Hazard pictograms	
Signal word	: Warning.
Hazard statements	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
General	: Not applicable.
Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapour.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	<ul> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	: EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	<u>ients</u>
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	: None known.

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

Product/ingredient name	Identifiers	%	Classification	Туре
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	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,	[1] [2]
epoxy resin (MW 700-1200)	CAS: 25036-25-3	≤10	H412 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤10	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-688-5 CAS: 64742-95-6	≤10	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≤5	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≤5	Carc. 2, H351 (inhalation)	[1] [*]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤2.9	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	[1] [2]
decanedioic acid, 1,10-bis (1,2,2,6,6-pentamethyl- 4-piperidinyl) ester, mixt. with 1-methyl 10- (1,2,2,6,6-pentamethyl- 4-piperidinyl) decanedioate	CAS: 1065336-91-5	<3	STOT SE 3, H336 Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
fatty acids, C14-18 and C16-18-unsatd., maleated	REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2	<1	Skin Irrit. 2, H315 Skin Sens. 1, H317	[1]
maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334	[1] [2]

ECTION 3: Composition/information on ingredients				
	Index: 607-096-00-9	Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) STOT RE 2, H373 EUH071		
		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, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter  $\leq$  10 µm not bound within a matrix.

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

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.
Skin contact	:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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

## **SECTION 4: First aid measures**

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 epoxy resin (MW 700-1200), decanedioic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester, mixt. with 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) decanedioate, Fatty acids, C14-18 and C16-18-unsatd., maleated, maleic anhydride. May produce an allergic reaction.

### **Over-exposure signs/symptoms**

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

#### 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.

See toxicological information (Section 11)

SECTION 5: Firefighting measures		
5.1 Extinguishing media Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.	
Unsuitable extinguishing media	: Do not use water jet.	
5.2 Special hazards arising f	from the substance or mixture	
Hazards from the	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard.	

substance or mixture 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.

# **SECTION 5: Firefighting measures**

Hazardous combustion	: Decomposition products may include the following materials:
products	carbon dioxide
	carbon monoxide
	nitrogen oxides
	phosphorus oxides
	halogenated compounds
	carbonyl halides
	metal oxide/oxides
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.

# **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. Avoid breathing 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	со	ntainment 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 ingest. Avoid breathing vapour or mist. 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 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.

### Seveso Directive - Reporting thresholds

#### Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne
E2	200 tonne	500 tonne

See Technical Data Sheet / packaging for further information.

### 7.3 Specific end use(s)

- Recommendations
- : Not available.
- Industrial sector specific solutions
- : Not available.

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values					
<b>x</b> ylene		p- or mixed isome	(United Kingdom (Uk ers] Absorbed throug		ylene, o	o-,m-,
		STEL: 441 mg/m <sup>3</sup> STEL: 100 ppm 1 TWA: 220 mg/m <sup>3</sup> TWA: 50 ppm 8 h	5 minutes. 8 hours.			
n-butyl acetate			(United Kingdom (UK	K), 1/2020).		
		STEL: 200 ppm 1 TWA: 724 mg/m <sup>3</sup> TWA: 150 ppm 8	8 hours.			
Date of issue/Date of revision : 05	5.04.2024	Date of previous issue	: 21.04.2023	Version	:1.03	7/21

# SECTION 8: Exposure controls/personal protection

-	
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m <sup>3</sup> 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m <sup>3</sup> 8 hours.
butan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 154 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
maleic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation
	sensitiser.
	STEL: 3 mg/m <sup>3</sup> 15 minutes.
	TWA: 1 mg/m <sup>3</sup> 8 hours.

### **Biological exposure indices**

Product/ingredient name	Exposure indices
xylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-,
	m-, p- or mixed isomers]
	BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine].
	Sampling time: post shift.

Recommended monitoring	1	Reference should be made to appropriate monitoring standards. Reference to
procedures		national guidance documents for methods for the determination of hazardous
		substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	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>		Local
	DNEL	Long term Inhalation	65.3 mg/m³		Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General	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/m³	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
trizinc bis(orthophosphate)	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population [Consumers]	Systemic

DNEL	Long term Dermal	12.5 mg/	Workers	Systemic
DNEL	Long term Inhalation	kg bw/day 151 mg/m³	Workers	Systemic
DNEL	Long term Dermal	7.5 mg/kg bw/day	General population	Systemic
DNEL	Long term Inhalation	32 mg/m³	General population	Systemic
DNEL	Long term Oral	7.5 mg/kg bw/day	General population	Systemic
DNEL	Long term	0.41 mg/m <sup>3</sup>	General	Systemic
DNEL	Long term	1.9 mg/m³	population Workers	Systemic
DNEL	Long term	178.57 mg/	General	Local
DNEL	Short term	640 mg/m <sup>3</sup>	General	Local
DNEL	Long term	837.5 mg/ m³	Workers	Local
DNEL	Short term Inhalation	1066.67 mg/m <sup>3</sup>	Workers	Local
DNEL	Short term Inhalation	1152 mg/ m <sup>3</sup>	General population	Systemic
DNEL	Short term Inhalation	1286.4 mg/ m <sup>3</sup>	Workers	Systemic
DNEL	Short term Inhalation	960 mg/m <sup>3</sup>	Workers	Systemic
	Short term Inhalation	-		Local
	Inhalation	-		Systemic
	Inhalation	Ū		Local
DNEL	Inhalation	859.7 mg/ m <sup>3</sup>	population	Systemic
DNEL	Short term Inhalation	859.7 mg/ m³	General <sup>-</sup> population	Local
DNEL	Long term Inhalation	102.34 mg/ m³	General population	Systemic
DNEL	Long term Inhalation	102.34 mg/ m <sup>3</sup>	General population	Local
DNEL	Long term Oral	2 mg/kg bw/day	General	Systemic
DNEL	Short term Oral	2 mg/kg	General	Systemic
DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	_	bw/day		Systemic Systemic
		bw/day	General	
DNEL	Long term	12 mg/m <sup>3</sup>	General	Systemic
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELLong term Inhalation DNELDNELLong term DermalDNELLong term OralDNELLong term OralDNELLong term Inhalation Long term InhalationDNELLong term Inhalation DNELDNELLong term Inhalation DNELDNELLong term Inhalation DNELDNELShort term InhalationDNELShort term InhalationDNELCong term InhalationDNELCong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term OralDNELLong term OralDNELShort term Dermal	NELLong term InhalationKg bw/day 151 mg/m³DNELLong term Dermal7.5 mg/kg bw/dayDNELLong term Oral32 mg/m³DNELLong term Oral7.5 mg/kg bw/dayDNELLong term Oral7.5 mg/kg bw/dayDNELLong term Oral7.5 mg/kg bw/dayDNELLong term Inhalation0.41 mg/m³DNELLong term Inhalation1.9 mg/m³DNELLong term Inhalation1.9 mg/m³DNELLong term Inhalation178.57 mg/ m³DNELShort term Inhalation066.67 mg/m³DNELShort term Inhalation1152 mg/ m³DNELShort term Inhalation1286.4 mg/ m³DNELShort term Inhalation960 mg/m³DNELShort term Inhalation960 mg/m³DNELShort term Inhalation960 mg/m³DNELCong term Inhalation480 mg/m³DNELShort term Inhalation960 mg/m³DNELCong term Inhalation102.34 mg/ m³DNELLong term Oral Inhalation2 mg/kg bw/dayDNELLong term Oral Inhalation2 mg/kg 	NELLong term Inhalationkg bw/dayWorkersDNELLong term Dermal7.5 mg/kg bw/dayGeneral population [Consumers]DNELLong term Oral7.5 mg/kg bw/dayGeneral population [Consumers]DNELLong term Oral7.5 mg/kg bw/dayGeneral population [Consumers]DNELLong term Oral7.5 mg/kg bw/dayGeneral population [Consumers]DNELLong term inhalation1.9 mg/m³General populationDNELLong term inhalation1.9 mg/m³General populationDNELLong term inhalation178.57 mg/ m³General populationDNELShort term inhalation1066.67 mg/m³WorkersDNELShort term inhalation1066.67 mg/m³WorkersDNELShort term inhalation1286.4 mg/ m³WorkersDNELShort term inhalation960 mg/m³ workersWorkersDNELShort term inhalation960 mg/m³ m³WorkersDNELShort term inhalation102.34 mg/ m³General populationDNELLong term inhalation102.34 mg/ m³General populationDNELLong term Oral2 mg/kg general populationDNELLong term Oral2 mg/kg general populationDNELLong term Oral2 mg/kg general populationDNELLong term Oral2 mg/kg general populationDNELLong term Oral2 mg/kg general popula

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SECTION 8:	Exposure	controls/	personal	prote
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		Inhalation		population	
	DNEL	Long term	48 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	-		
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Systemic
		Inhalation	_	population	-
	DNEL	Long term	300 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	600 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
ethylbenzene	DMEL	Long term	442 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DMEL	Short term	884 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation		<b>a</b> .	
	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	15 mg/m³	General	Systemic
		Inhalation	$77 m g/m^{3}$	population	Svetemie
	DNEL	Long term	77 mg/m³	Workers	Systemic
	DNEL	Inhalation	180 ma/ka	Workers	Systemia
	DNEL	Long term Dermal	180 mg/kg bw/day	WUREIS	Systemic
	DNEL	Short term	293 mg/m <sup>3</sup>	Workers	Local
	DINEL	Inhalation	295 mg/m	VUNCIS	LUCAI
titanium dioxide	DNEL	Long term	28 µg/m³	General	Local
	DNEL	Inhalation	20 µg/m	population	LUCAI
	DNEL	Long term	170 µg/m³	Workers	Local
	DINCL	Inhalation	170 µg/m	WORKERS	Local
butan-1-ol	DNEL	Long term Oral	1.5625 mg/	General	Systemic
	DINCL	Long term oran	kg bw/day	population	Cysternio
	DNEL	Long term Dermal	3.125 mg/	General	Systemic
	DITE	Long toni Donna	kg bw/day	population	oyeterme
	DNEL	Long term	55.357 mg/	General	Systemic
		Inhalation	m³ Ö	population	,
	DNEL	Long term	155 mg/m³	General	Local
		Inhalation	-	population	
	DNEL	Long term	310 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
decanedioic acid, 1,10-bis	DNEL	Long term Oral	0.18 mg/	General	Systemic
(1,2,2,6,6-pentamethyl-4-piperidinyl)			kg bw/day	population	
ester, mixt. with 1-methyl 10-					
(1,2,2,6,6-pentamethyl-4-piperidinyl)					
decanedioate					
	DNEL	Long term	0.31 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Long term Dermal	0.9 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	1.27 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	1.8 mg/kg	Workers	Systemic
			bw/day	0	O a tan t
fatty acids, C14-18 and	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
C16-18-unsatd., maleated	האורי		bw/day	population	Queters!-
	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
	האורי		bw/day	population	Queters!-
	DNEL	Long term Dermal	3 mg/kg	Workers	Systemic
malaia anhudrida	האורי	Long torm	bw/day	Concret	Curtana:-
maleic anhydride	DNEL	Long term	0.05 mg/m <sup>3</sup>	General	Systemic
	סאירי	Inhalation	0.06	population	Sustania
	DNEL	Long term Oral	0.06 mg/	General	Systemic
		1	kg bw/day	population	

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

Section 6. Exposure controls/personal protection						
DNEL	Long term	0.08 mg/m <sup>3</sup>	General	Local		
	Inhalation		population			
DNEL	Long term	0.081 mg/	Workers	Local		
	Inhalation	m³				
DNEL	Long term	0.081 mg/	Workers	Systemic		
	Inhalation	m³				
DNEL	Short term Oral	0.1 mg/kg	General	Systemic		
		bw/day	population			
DNEL	Short term Dermal	0.1 mg/kg	General	Systemic		
		bw/day	population			
DNEL	Long term Dermal	0.1 mg/kg	General	Systemic		
		bw/day	population			
DNEL	Short term Dermal	0.2 mg/kg	Workers	Systemic		
		bw/day				
DNEL	Long term Dermal	0.2 mg/kg	Workers	Systemic		
		bw/day				
DNEL	Short term	0.2 mg/m <sup>3</sup>	Workers	Local		
	Inhalation					
DNEL	Short term	0.2 mg/m <sup>3</sup>	Workers	Systemic		
	Inhalation					
	Innalation					

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
xylene	Fresh water	0.327 mg/l	-
	Marine	0.327 mg/l	-
	Sewage Treatment	6.58 mg/l	-
	Plant	-	
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg dwt	-
trizinc bis(orthophosphate)	Fresh water	20.6 µg/l	-
	Marine	6.1 µg/l	-
	Sewage Treatment	52 µg/l	-
	Plant		
	Fresh water sediment	117.8 mg/kg dwt	-
	Marine water sediment	56.5 mg/kg dwt	-
	Soil	35.6 mg/kg dwt	-
n-butyl acetate	Fresh water	0.18 mg/l	-
-	Marine	0.018 mg/l	-
	Sewage Treatment	35.6 mg/l	-
	Plant	Ū	
	Fresh water sediment	0.981 mg/kg dwt	-
	Marine water sediment	0.0981 mg/kg dwt	-
	Soil	0.0903 mg/kg dwt	
ethylbenzene	Fresh water	0.1 mg/l	-
,	Marine	0.01 mg/l	-
	Sewage Treatment	9.6 mg/l	-
	Plant	<b>U</b>	
	Fresh water sediment	13.7 mg/kg dwt	-
	Soil	2.68 mg/kg dwt	-
	Secondary Poisoning	20 mg/kg	-
butan-1-ol	Fresh water	0.082 mg/l	-
	Marine	0.0082 mg/l	-
	Sewage Treatment	2476 mg/l	-
	Plant	U. U.	
	Fresh water sediment	0.178 mg/kg dwt	-
	Marine water sediment	0.0178 mg/kg dwt	-
	Soil	0.015 mg/kg dwt	-

#### 8.2 Exposure controls

# **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 measur	<u>'es</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

# Skin protection

### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

#### Gloves

 $\mathbf{W}$ ear suitable gloves tested to ISO 374-1:2016.

May be used, gloves(breakthrough time) 4 - 8 hours: Viton® (> 0.7 mm), butyl rubber (> 0.4 mm), PVC (> 0.5 mm), neoprene (> 0.35 mm)

Recommended, gloves(breakthrough time) > 8 hours: fluor rubber (> 0.35 mm), 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm), nitrile rubber (> 0.75 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

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.

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	: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

# **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

Appearance		
Physical state	:	Liquid.
Colour	:	Black, Green., Grey, MCI Base 1, MCI Base 2, MCI Base 3, MCI Base 5, MCI Base 6, Orange, Red, White., Yellow.
Odour	:	Characteristic.
Odour threshold	:	Not applicable.
Melting point/freezing point	:	Not applicable.
Initial boiling point and boiling range	:	✓ west known value: 119°C (246.2°F) (butan-1-ol). Weighted average: 141.73°C (287.1°F)
Flammability	:	Not applicable.
Upper/lower flammability or explosive limits	:	0.8 - 11.3%
Flash point	:	Closed cup: 28°C (82.4°F)
Auto-ignition temperature		Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9, aromatics).
Decomposition temperature	:	Not available.
рН	:	Not applicable.
Viscosity	:	Kinematic (40°C): >20.5 mm²/s
Solubility(ies)		
Solubility(ies) Media	•	Result
	•	Result       Not soluble       Not soluble
Media cold water	:	Not soluble Not soluble
Media cold water hot water Partition coefficient: n-octano	:	Not soluble Not soluble
Media cold water hot water Partition coefficient: n-octano water	:	Not soluble Not soluble Not available. Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate).
Media         cold water         hot water         Partition coefficient: n-octano         water         Vapour pressure	:	Not soluble         Not soluble         Not available.         Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate).         Weighted average: 0.89 kPa (6.68 mm Hg) (at 20°C)         Highest known value: 1 (n-butyl acetate)         Weighted average: 0.8compared with
Media         cold water         hot water         Partition coefficient: n-octano         water         Vapour pressure         Evaporation rate	: : : :	Not soluble         Not soluble         Not available.         Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate).         Weighted average: 0.89 kPa (6.68 mm Hg) (at 20°C)         Highest known value: 1 (n-butyl acetate)         Weighted average: 0.80 kPa (6.68 mm Hg) (at 20°C)         Highest known value: 1 (n-butyl acetate)         Weighted average: 0.8compared with butyl acetate
Media         cold water         hot water         Partition coefficient: n-octano         water         Vapour pressure         Evaporation rate         Density	:	Not soluble         Not soluble         Not available.         Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate).         Weighted average: 0.89 kPa (6.68 mm Hg) (at 20°C)         Highest known value: 1 (n-butyl acetate)         Weighted average: 0.8compared with butyl acetate         1.33 to 1.52 g/cm³         Highest known value: 4 (Air = 1) (n-butyl acetate).
Media         cold water         hot water         Partition coefficient: n-octano         water         Vapour pressure         Evaporation rate         Density         Vapour density	: : : : :	Not soluble         Not soluble         Not available.         Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate).         Weighted average: 0.89 kPa (6.68 mm Hg) (at 20°C)         Highest known value: 1 (n-butyl acetate) Weighted average: 0.8compared with butyl acetate         1.33 to 1.52 g/cm³         Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.66 (Air = 1)
Media         cold water         hot water         Partition coefficient: n-octano         water         Vapour pressure         Evaporation rate         Density         Vapour density         Explosive properties	: : : : :	Not soluble         Not soluble         Not available.         Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate).         Weighted average: 0.89 kPa (6.68 mm Hg) (at 20°C)         Highest known value: 1 (n-butyl acetate) Weighted average: 0.8compared with butyl acetate         1.33 to 1.52 g/cm³         Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.66 (Air = 1)         Not available.
Media         cold water         hot water         Partition coefficient: n-octano         water         Vapour pressure         Evaporation rate         Density         Vapour density         Explosive properties         Oxidising properties	: : : : :	Not soluble         Not soluble         Not available.         Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate).         Weighted average: 0.89 kPa (6.68 mm Hg) (at 20°C)         Highest known value: 1 (n-butyl acetate) Weighted average: 0.8compared with butyl acetate         1.33 to 1.52 g/cm³         Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.66 (Air = 1)         Not available.

#### 9.2 Other information

No additional information.

# **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	: Stable under recommended storage and handling conditions (see Section 7).
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.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

, ,

# SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

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 epoxy resin (MW 700-1200), decanedioic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester, mixt. with 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) decanedioate, Fatty acids, C14-18 and C16-18-unsatd., maleated, maleic anhydride. May produce an allergic reaction.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
-	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	13100 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	11 mg/l	4 hours
-	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
butan-1-ol	LD50 Oral	Rat	790 mg/kg	-
maleic anhydride	LD50 Oral	Rat	400 mg/kg	-

#### 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)
Hardtop Smart Pack Comp A	27777.8	9214.5	N/A	69.0	N/A
xylene	4300	1100	N/A	11	N/A
n-butyl acetate	13100	N/A	N/A	N/A	N/A
ethylbenzene	3500	N/A	N/A	11	N/A
butan-1-ol	500	N/A	N/A	N/A	N/A
maleic anhydride	400	N/A	N/A	N/A	N/A

#### Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Eyes - Mild irritant	Rabbit	-	87 milligrams	-
Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
Eyes - Mild irritant	Mammal - species	-	-	-
Skin - Mild irritant	Mammal - species	-	-	-
	Eyes - Mild irritant Skin - Mild irritant Eyes - Mild irritant	Eyes - Mild irritantRabbitSkin - Mild irritantRatEyes - Mild irritantMammal - species unspecified Mammal -	Eyes - Mild irritantRabbitSkin - Mild irritantRatEyes - Mild irritantMammal - species unspecified Mammal -	Eyes - Mild irritantRabbit-87 milligramsSkin - Mild irritantRat-87 milligramsEyes - Mild irritantMammal - species unspecified Mammal

# SECTION 11. Toxicological information

5		gical information				
			unspecified			
	titanium dioxide	Skin - Mild irritant	Human	-	72 hours	-
	fatty acids, C14-18 and	Skin - Mild irritant	Mammal -	-	-	-
	C16-18-unsatd., maleated		species			
			unspecified			
	maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 Percent	-

**Sensitisation** 

Product/ingredient name	Route of exposure	Species	Result
poxy resin (MW 700-1200)	skin	Mammal - species unspecified	Sensitising
fatty acids, C14-18 and C16-18-unsatd., maleated	skin	Mammal - species unspecified	Sensitising
maleic anhydride	skin	Mammal - species unspecified	Sensitising

### **Mutagenicity**

No known significant effects or critical hazards.

#### **Carcinogenicity**

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

No known significant effects or critical hazards.

### **Reproductive toxicity**

- **Developmental effects**
- : No known significant effects or critical hazards.
- **Fertility effects** : No known significant effects or critical hazards.

### **Teratogenicity**

No known significant effects or critical hazards.

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

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene maleic anhydride	Category 2 Category 1 Category 2		hearing organs respiratory system

#### **Aspiration hazard**

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

### Potential acute health effects

Eye contact	: Causes serious eye irritation.
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- Inhalation : May cause respiratory irritation.
- **Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

# **SECTION 11: Toxicological information**

Ingestion	: No known significant effects or critical hazards.
Symptoms related to the	e physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Other information	: None identified.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposur
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Daggerblade grass shrimp - Palaemonetes	48 hours
		pugio	
	Acute LC50 13400 µg/l Fresh water	Fish - Fathead minnow -	96 hours
		Pimephales promelas	001
rizinc bis(orthophosphate)	Acute LC50 0.14 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.1 mg/l	Micro-organism	4 hours
ydrocarbons, C9, aromatics		Daphnia	48 hours
	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 7700 μg/l Marine water	Algae - Diatom - Skeletonema costatum	96 hours
	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Water flea - Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Mummichog - Fundulus heteroclitus	96 hours
lecanedioic acid, 1,10-bis 1,2,2,6,6-pentamethyl- I-piperidinyl) ester, mixt. vith 1-methyl 10- 1,2,2,6,6-pentamethyl- I-piperidinyl) decanedioate	Acute EC50 1.68 mg/l	Algae	96 hours
11 57	Acute LC50 0.9 mg/l	Fish	96 hours
	Chronic NOEC 1 mg/l	Daphnia	21 days
naleic anhydride	Acute LC50 230 ppm Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours
Conclusion/Summary	: Water polluting material. May be ha quantities. This material is toxic to a		l in large
.2 Persistence and degrada	bility		
Conclusion/Summary	Not available.		

# **SECTION 12: Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>x</b> ylene	-	-	Readily
trizinc bis(orthophosphate)	-	-	Not readily
hydrocarbons, C9, aromatics	-	-	Not readily
ethylbenzene	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
<b>x</b> ylene	3.12	8.1 to 25.9	low	
trizinc bis(orthophosphate)	-	60960	high	
hydrocarbons, C9, aromatics	-	10 to 2500	high	
n-butyl acetate	2.3	-	low	
ethylbenzene	3.6	-	low	
butan-1-ol	1	-	low	
maleic anhydride	-2.78	-	low	

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

**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 dangerous 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

Type of packaging		Waste catalogue
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances

# **SECTION 13: Disposal considerations**

#### **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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	Paint	Paint	Paint. Marine pollutant (trizinc bis (orthophosphate))	Paint
14.3 Transport hazard class(es)			3	3
14.4 Packing group	Ш	Ш		111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

### Additional information

ADR/RID	:	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ . <u>Hazard identification number</u> 30 <u>Tunnel code</u> (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. <b>Emergency schedules</b> F-E, <u>S-E</u>
ΙΑΤΑ	:	The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special precautions for user	:	<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 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

<u>Annex XIV</u>

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

# **SECTION 15: Regulatory information**

### **Ozone depleting substances**

Not listed.

#### Prior Informed Consent (PIC)

Not listed.

#### Persistent Organic Pollutants Not listed.

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

#### Seveso Directive

This product is controlled under the Seveso Directive.

### Danger criteria

Category	
P5c E2	
EU regulations	
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
International regulations	
Chemical Weapon Convent	ion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention on F Not listed.	Persistent Organic Pollutants
Rotterdam Convention on F	Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol on	POPs and Heavy Metals
Not listed.	
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments are still required.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

# **SECTION 16: Other information**

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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. 3, H226	On basis of test data	
Skin Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
Skin Sens. 1, H317	Calculation method	
STOT SE 3, H335	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.
H304	May be fatal if swallowed and enters airways.
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.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
Full toxt of cla	

#### Full text of classifications

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
Carc. 2	CARCINOGENICITY - Category 2
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
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1

Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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### Notice to reader

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