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

### 1.1 Product identifier

Product name : Hardtop Flexi Comp A UFI : 4F74-609R-W00R-KGA9

Product code : 1531
Product description : Paint.
Product type : Liquid.

Other means of identification

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

: Not available.

Use in coatings - Industrial use
Use in coatings - Professional use

### 1.3 Details of the supplier of the safety data sheet

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/Poison Centre** 

Telephone number : Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.

**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

<u>Classification according to UK CLP/GHS</u>

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 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

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### SECTION 2: Hazards identification

**Hazard pictograms** 







Signal word : Warning.

**Hazard statements** : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

General : Not applicable.

**Prevention** : P280 - Wear protective gloves. Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

: P391 - Collect spillage. Response

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

**Storage** : Not applicable.

: P501 - Dispose of contents and container in accordance with all local, regional, **Disposal** 

national and international regulations.

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 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 : None known.

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### **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 Index: 601-022-00-9	≥10 - ≤18	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]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≤10	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	<10	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤5	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
talc (non-asbestos form)	EC: 238-877-9 CAS: 14807-96-6	≤5	Not classified.	[2]
hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6	≤1.9	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≤3	Carc. 2, H351 (inhalation)	[1] [2] [*]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	<1	Flam. Liq. 3, H226 STOT SE 3, H336	[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	≤1	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
2-Propenoic acid, 2-methyl-, 2- (dimethylamino)ethyl ester, polymer with butyl 2-propenoate, compd. with polyethylene glycol hydrogen maleate C9-11-alkyl ethers	CAS: 1259547-09-5	<1	Skin Sens. 1, H317	[1]
fatty acids, C14-18 and C16-18-unsatd., maleated	REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1, H317	[1]
silica, amorphous, fumed, cryst	REACH #:	≤0.1	Not classified.	[2]

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EC: 231-545-4 CAS: 112945-52-5			
1 5 6 1 2 0 1 2 0 1	ZO 4	CTOT DE 2 11272	[41 [0]
EC: 238-878-4 CAS: 14808-60-7	≤0.1	STOT RE 2, H373	[1] [2]
	<0.1		[1] [2]
CAS: 108-67-8	-0		[.,][-]
Index: 601-025-00-5		Eye Irrit. 2, H319	
EC: 222-883-3	≤0.1		[1] [2]
CAS: 3648-18-8		STOT RE 1, H372	[.,][-]
		(immune system)	
	≤0.1		[1] [2]
		S101 SE 3, H335	
	<0.1	Acute Tox 4 H302	[1] [2]
	<u>-</u> 0.1		ניו נבו
EC: 203-571-6		Eye Dam. 1, H318	
CAS: 108-31-6		Resp. Sens. 1, H334	
Index: 607-096-00-9			
		EUH071	
REACH #:	≤0.1	Not classified.	[2]
01-2119384822-32			
	<0.1	Flam Lig 2 H225	[1] [2]
	-0.1		['][~]
EC: 203-625-9		Repr. 2, H361d	
CAS: 108-88-3			
Index: 601-021-00-3			
REACH #	<0.1		[1] [2]
	30.1		[1][2]
EC: 203-539-1		3.3.32 3, 1.333	
CAS: 107-98-2			
	<0.1		[1] [2]
EC: 231-100-4	≤0.1	Repr. 1A, H360FD	[1] [2]
CAS: 7439-92-1		Lact., H362	
Index: 082-013-00-1		Aquatic Acute 1, H400	
		H410 (M=10)	
		See Section 16 for	
		.	
		the full text of the H statements declared	
	EC: 222-883-3 CAS: 3648-18-8  EC: 203-620-1 CAS: 108-83-8 Index: 606-005-00-X REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9  REACH #: 01-2119384822-32 EC: 215-609-9 CAS: 1333-86-4 REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3  REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3 REACH #: 01-2119565113-46 EC: 204-881-4 CAS: 128-37-0 EC: 231-100-4	EC: 203-604-4 CAS: 108-67-8 Index: 601-025-00-5  EC: 222-883-3 CAS: 3648-18-8  EC: 203-620-1 CAS: 108-83-8 Index: 606-005-00-X REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9  REACH #: 01-2119384822-32 EC: 215-609-9 CAS: 1333-86-4 REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3  REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3 REACH #: 01-2119565113-46 EC: 204-881-4 CAS: 128-37-0 EC: 231-100-4 CAS: 7439-92-1	EC: 203-604-4 CAS: 108-67-8 Index: 601-025-00-5 Index: 601-025-00-5  EC: 222-883-3 CAS: 3648-18-8  EC: 203-620-1 CAS: 108-83-8 Index: 606-005-00-X REACH #: 01-2119472428-31 EC: 203-671-6 CAS: 108-31-6 Index: 607-096-00-9  REACH #: 01-2119384822-32 EC: 215-609-9 CAS: 1333-86-4 REACH #: 01-21194771310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3  REACH #: 01-2119477435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3 REACH #: 01-21194565113-46 EC: 204-881-4 CAS: 7439-92-1 Index: 082-013-00-1  EC: 201-100-1  REACH #: 01-21194562113-46 EC: 204-881-4 CAS: 7439-92-1 Index: 082-013-00-1  EVITION: Liq. 3, H226 Skin Irrit. 2, H375 STOT RE 1, H372 (respiratory system) (inhalation) EUH071 Not classified.  Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT RE 2, H373 Asp. Tox. 1, H304 Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Flam. Liq. 3, H226 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Aquatic Acute 1, H400

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** 

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

- [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 ≤ 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 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 adverse health effects persist or are severe. 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. 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

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 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, 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, comps. with polyethylene glycol hydrogen maleate C9-11-alkyl ethers, fatty acids, C14-18 and C16-18-unsatd., maleated. May produce an allergic reaction.

### Over-exposure signs/symptoms

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

Eye contact : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

: No specific data. Ingestion

#### 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.

: No specific treatment. **Specific treatments** 

See toxicological information (Section 11)

### SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO2, powders, water spray.

Unsuitable extinguishing

media

: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion** products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides 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, 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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### SECTION 6: Accidental release measures

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 noncombustible, 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. 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

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

### **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 : Not available.

solutions

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

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 441 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 966 mg/m³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m³ 8 hours.
	TWA: 150 ppm 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m³ 8 hours.
talc (non-asbestos form)	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 1 mg/m³ 8 hours. Form: respirable dust
titanium dioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 4 mg/m³ 8 hours. Form: respirable
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total inhalable
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 274 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
silica, amorphous, fumed, crystfree	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 2.4 mg/m³ 8 hours. Form: respirable dust
	TWA: 6 mg/m³ 8 hours. Form: inhalable dust
silica, crystalline - quartz	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
mesitylene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 25 ppm 8 hours.
	TWA: 125 mg/m³ 8 hours.
dioctyltin dilaurate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
•	through skin.
	STEL: 0.2 mg/m³, (as Sn) 15 minutes.
	TWA: 0.1 mg/m³, (as Sn) 8 hours.

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

TWA: 148 mg/m³ 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation sensitiser.

STEL: 3 mg/m³ 15 minutes.

TWA: 1 mg/m³ 8 hours.

Carbon black

EH40/2005 WELs (United Kingdom (UK), 1/2020).

STEL: 7 mg/m³ 15 minutes.

TWA: 3.5 mg/m³ 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.

STEL: 384 mg/m³ 15 minutes.

TWA: 191 mg/m³ 8 hours.

TWA: 25 ppm 8 hours.

TWA: 50 ppm 8 hours.
STEL: 100 ppm 15 minutes.

1-methoxy-2-propanol

EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

STEL: 560 mg/m³ 15 minutes.

STEL: 150 ppm 15 minutes.

TWA: 375 mg/m³ 8 hours.

TWA: 100 ppm 8 hours.

2,6-ditert-butyl-p-cresol EH40/2005 WELs (United Kingdom (UK), 1/2020).

TWA: 10 mg/m<sup>3</sup> 8 hours.

lead EH40/2005 WELs (United Kingdom (UK), 1/2020).

TWA: 0.15 mg/m<sup>3</sup> 8 hours.

#### **Biological exposure indices**

No exposure indices known.

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**

Product/ingredient name	Type	Exposure	Value	Population	Effects
xylene	DNEL	Long term	65.3 mg/m <sup>3</sup>		Local
		Inhalation		population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	12.5 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
n-butyl acetate	DNEL	Short term	960 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Short term	960 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term	480 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			

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<del>_</del>		-			
	DNEL	Long term	480 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	859.7 mg/	General	Systemic
		Inhalation	m³	population	
				[Consumers]	
	DNEL	Short term	859.7 mg/	General	Local
	0.122	Inhalation	m³	population	20001
		Illiadion	***	[Consumers]	
	DNEL	Long torm	100 24 mg/	General	Cyatamia
	DINEL	Long term	102.34 mg/		Systemic
		Inhalation	m³	population	
				[Consumers]	
	DNEL	Long term	102.34 mg/	General	Local
		Inhalation	m³	population	
				[Consumers]	
	DNEL	Short term Oral	2 mg/kg	General	Systemic
		Short tonn Gran	bw/day	population	Cycloniic
	DNEL	Long torm Oral		General	Systemia
	DINEL	Long term Oral	2 mg/kg		Systemic
			bw/day	population	
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
			bw/day		-
	DNEL	Long term	35.7 mg/m <sup>3</sup>	General	Local
		Inhalation	oo., mg,m	population	Local
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Local
	DINEL		300 mg/m	-	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/m <sup>3</sup>	Workers	Local
		Inhalation	<b>J</b> .		
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Systemic
	DINCL		000 mg/m	WOIKEIS	Systemic
	DAIEL	Inhalation	0.4	0	0
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	12 mg/m³	General	Systemic
		Inhalation		population	'
	DNEL	Long term	48 mg/m³	Workers	Systemic
	DIVLE	Inhalation	40 mg/m	WOIKOIS	Cystoniio
athy dia a mana na	DNIEL		1 C //-	Conoral	Cycatamaia
ethylbenzene	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
	D	1	bw/day	population	0
	DNEL	Long term	15 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation	=		
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
			bw/day		'
	DNEL	Short term	293 mg/m <sup>3</sup>	Workers	Local
	DINEL	Inhalation	290 mg/m	VVOINGIS	Local
	האבו		440/3	\\/	1 1
	DMEL	Long term	442 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DMEL	Short term	884 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
trizinc bis(orthophosphate)	DNEL	Long term Dermal	83 mg/kg	Workers	Systemic
( ) ( ) ( )			bw/day		'
	DNEL	Long term	5 mg/m <sup>3</sup>	Workers	Systemic
	DIVLE	Inhalation	5 mg/m	11011010	Cyclonino
	ראבי		البيمير ٥٥	Conoral	Cyatansia
	DNEL	Long term Dermal	83 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
	DNEL	Long term	2.5 mg/m <sup>3</sup>	General	Systemic
l	İ	<u> </u>			<u> </u>

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•		•			
		Inhalation		population	
				[Consumers]	
	DNEL	Long term Oral	0.83 mg/	General	Systemic
		==:::9 :=::::	kg bw/day	population	
			ng bw/day		
	ראובי	Long to	0.00/	[Consumers]	Cueten::-
	DNEL	Long term Oral	0.83 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	2.5 mg/m <sup>3</sup>	General	Systemic
		Inhalation	ŭ	population	*
	DNEL	Long term	5 mg/m³	Workers	Systemic
	DIVLL	Inhalation	5 mg/m	WORKOIS	Cystonic
	DNE		00//	0	0
	DNEL	Long term Dermal	83 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	83 mg/kg	Workers	Systemic
			bw/day		
talc (non-asbestos form)	DNEL	Short term	1.08 mg/m <sup>3</sup>	General	Systemic
()		Inhalation		population	
	DNEL		1.08 mg/m <sup>3</sup>		Cyatamia
	DINEL	Long term	1.06 Hig/III		Systemic
		Inhalation		population	
	DNEL	Short term	1.8 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	1.8 mg/m <sup>3</sup>	General	Local
		Inhalation	•	population	
	DNEL	Short term	2.16 mg/m <sup>3</sup>		Systemic
	DINLL	Inhalation	2. 10 mg/m	WOIKEIS	Systemic
	DATE		0.40 / 2	\A./ I	
	DNEL	Long term	2.16 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	2.27 mg/	General	Local
			cm²	population	
	DNEL	Short term	3.6 mg/m <sup>3</sup>	Workers	Local
	DIVLL	Inhalation	3.0 mg/m	WORKOIS	Local
	DNE		0.0/3	\\	1 1
	DNEL	Long term	3.6 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term Dermal	4.54 mg/	Workers	Local
			cm <sup>2</sup>		
	DNEL	Long term Dermal	21.6 mg/	General	Systemic
		==:::g :=::::=:	kg bw/day	population	
	DNEL	Long torm Dormal	,	Workers	Systemia
	DINEL	Long term Dermal	43.2 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Short term Oral	160 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	160 mg/kg	General	Systemic
			bw/day	population	-
hydrocarbons, C9, aromatics	DNEL	Long term Dermal	12.5 mg/	Workers	Systemic
Tryanosansono, oo, aromanos	51166	Long torri Dorrida	kg bw/day	. 7 OI NOI O	2,01011110
	ראובי	Long torm		Markora	Systemis
	DNEL	Long term	151 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	7.5 mg/kg	General	Systemic
			bw/day	population	
			-	[Consumers]	
	DNEL	Long term	32 mg/m³	General	Systemic
	J. 1.L.	Inhalation	g/!!!	population	- , 5.5
		minaiauon			
	D		<b></b> "	[Consumers]	
	DNEL	Long term Oral	7.5 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
2-methoxy-1-methylethyl acetate	DNEL	Long term Dermal	153.5 mg/	Workers	Systemic
,,,			kg bw/day	· · · · ·	,
	DVIE	Long term		Workers	Systemic
	DNEL	Long term	275 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation		_	
	DNEL	Long term Dermal	54.8 mg/	General	Systemic
			kg bw/day	population	
			-	[Consumers]	
	DNEL	Long term	33 mg/m³	General	Systemic
			g,		,

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		Inhalation		population	
				[Consumers]	
	DNEL	Long term Oral	1.67 mg/	General	Systemic
			kg bw/day	population	-
				[Consumers]	
	DNEL	Long term	33 mg/m³	General	Local
		Inhalation	3	population	
	DNEL	Long term	33 mg/m³	General	Systemic
	D. \L_	Inhalation	00 mg/m	population	Gyotomio
	DNEL	Long term Oral	36 mg/kg	General	Systemic
	DIVLE	Long torm oral	bw/day	population	Cycloniio
	DNEL	Long term	275 mg/m <sup>3</sup>	Workers	Systemic
	DIVLL	Inhalation	275 mg/m	WORKEIS	Cystonic
	DNEL	Long term Dermal	320 mg/kg	General	Systemic
	DINCL	Long term Demia	bw/day	population	Systemic
	DNIEI	Short term		Workers	Local
	DNEL		550 mg/m <sup>3</sup>	vvoikeis	Local
	DATE	Inhalation	700	<b>NA7 1</b>	0
	DNEL	Long term Dermal	796 mg/kg	Workers	Systemic
			bw/day		
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>	General	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>		Systemic
		Inhalation			
	DNEL	Long term Dermal	1.8 mg/kg	Workers	Systemic
	J. 122	Zong toni Bonna	bw/day	W GIRGIO	Gyotomio
fatty acids, C14-18 and	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
C16-18-unsatd., maleated	DINCE	Long term Oral	bw/day	population	Oysternic
C 10-10-unsatu., maleated	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
	DIVLL	Long term Demia	bw/day	population	Systemic
	DNEL	Long term Dermal		Workers	Systemia
	DINEL	Long term Demia	3 mg/kg	Workers	Systemic
maaitulana	DNE	Long torm Oral	bw/day	Conoral	Cyatamia
mesitylene	DNEL	Long term Oral	15 mg/kg	General	Systemic
	DATE	01	bw/day	population	1 1
	DNEL	Short term	29.4 mg/m <sup>3</sup>		Local
	5	Inhalation	004 / 2	population	
	DNEL	Long term	29.4 mg/m <sup>3</sup>		Local
		Inhalation		population	
	DNEL	Short term	29.4 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Long term	29.4 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Short term	100 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term	100 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	100 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	9		
	DNEL	Long term	100 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	J.		_
	DNEL	Long term Dermal	9512 mg/	General	Systemic
			kg bw/day	population	,
	DNEL	Long term Dermal	16171 mg/	Workers	Systemic
			kg bw/day		- , 5.5.1110
dioctyltin dilaurate	DNEL	Long term Oral	0.0005 mg/	General	Systemic
alootyitii aliaalato	DINCE	Long tolli Olai	kg bw/day	population	Cyclonic
	DNEL	Long term	0.0009 mg/	General	Systemic
	DINEL	Inhalation	m <sup>3</sup>	population	Cysterrite
		minaiauVII	111	Population	
•	•	•	•		

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-	<del>-</del>			0.0005 (	\\	Constant!
		DNEL	Long term Inhalation	0.0035 mg/ m³	vvorkers	Systemic
	di-isobutyl ketone	DNEL	Long term Dermal	7.7 mg/kg	Workers	Systemic
				bw/day		
		DNEL	Long term Inhalation	53 mg/m³	Workers	Systemic
	maleic anhydride	DNEL	Long term Inhalation	0.081 mg/ m³	Workers	Local
		DNEL	Long term Inhalation	0.081 mg/ m³	Workers	Systemic
		DNEL	Short term Inhalation	0.2 mg/m³	Workers	Local
		DNEL	Short term Inhalation	0.2 mg/m³	Workers	Systemic
		DNEL	Long term Inhalation	0.05 mg/m <sup>3</sup>	General population	Systemic
		DNEL	Long term Oral	0.06 mg/ kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	0.08 mg/m <sup>3</sup>	General population	Local
		DNEL	Short term Oral	0.1 mg/kg bw/day	General population	Systemic
		DNEL	Short term Dermal	0.1 mg/kg bw/day	General population	Systemic
		DNEL	Long term Dermal	0.1 mg/kg bw/day	General population	Systemic
		DNEL	Short term Dermal	0.2 mg/kg bw/day	Workers	Systemic
		DNEL	Long term Dermal	0.2 mg/kg bw/day	Workers	Systemic
	carbon black	DNEL	Long term Inhalation	0.06 mg/m <sup>3</sup>	General population	Systemic
		DNEL	Long term Inhalation	1 mg/m³	Workers	Systemic
	Toluene	DNEL	Long term Inhalation	384 mg/m³	Workers	Systemic
		DNEL	Long term Oral	8.13 mg/ kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	56.5 mg/m <sup>3</sup>	General population	Local
		DNEL	Long term Inhalation	56.5 mg/m <sup>3</sup>	General population	Systemic
		DNEL	Long term Inhalation	192 mg/m³	Workers	Local
		DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
		DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic
		DNEL	Short term Inhalation	226 mg/m³	General population	Local
		DNEL	Short term Inhalation	226 mg/m³	General population	Systemic
		DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
		DNEL	Short term Inhalation	384 mg/m³	Workers	Local
		DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic
	1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
		DNEL	Long term	43.9 mg/m <sup>3</sup>	General	Systemic
		DNEL	Inhalation Long term Dermal	78 mg/kg	population General	Systemic
			-	bw/day	population	
!			I			<u> </u>

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	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	369 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/ m³	Workers	Systemic
2,6-ditert-butyl-p-cresol	DNEL	Long term Oral	0.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.435 mg/ m <sup>3</sup>	General population	Systemic
	DNEL	Long term	1.76 mg/m³		Systemic
	DNEL	Long term Dermal	0.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	Workers	Systemic

### **PNECs**

Product/ingredient name	<b>Compartment Detail</b>	Value	Method Detail
kylene	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	-
n-butyl acetate	Fresh water	0.18 mg/l	-
•	Marine	0.018 mg/l	-
	Sewage Treatment	35.6 mg/l	-
	Plant		
	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		
	Fresh water sediment	13.7 mg/kg dwt	-
	Soil	2.68 mg/kg dwt	-
	Secondary Poisoning	20 mg/kg	=
rizinc bis(orthophosphate)	Fresh water	20.6 µg/l	-
( 1 1 /	Marine	6.1 µg/l	=
	Sewage Treatment	52 μg/l	=
	Plant	1 3	
	Fresh water sediment	117.8 mg/kg dwt	_
	Marine water sediment	56.5 mg/kg dwt	_
	Soil	35.6 mg/kg dwt	_
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l	=
· · · · · · · · · · · · · · · · · · ·	Marine	0.0635 mg/l	-
	Sewage Treatment	100 mg/l	_
	Plant		
	Fresh water sediment	3.29 mg/kg dwt	_
	Marine water sediment	0.329 mg/kg dwt	_
	Soil	0.29 mg/kg dwt	_
Foluene	Fresh water	0.68 mg/l	_
	Marine	0.68 mg/l	_
	Sewage Treatment	13.61 mg/l	_
	Plant		
	Fresh water sediment	16.39 mg/kg dwt	_
	Marine water sediment	16.39 mg/kg dwt	_
	Soil	2.89 mg/kg dwt	_
1-methoxy-2-propanol	Fresh water	10 mg/l	_
modiony 2 proparior	1 10011 Water	· • · · · · · · · · · · · · · · · · ·	<u> </u>

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SECTION 8: Exposure controls/personal protection

| Marine | 1 mg/l | - 100 mg/l |

### 8.2 Exposure controls

## Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### **Individual protection 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.

#### **Eve/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**

Wear suitable gloves tested to ISO 374-1:2016.

Recommended, gloves(breakthrough time) > 8 hours: fluor rubber (> 0.35 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm), 4H/Silver Shield® (> 0.07 mm), nitrile rubber (> 0.4 mm)

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

Not recommended, gloves(breakthrough time) < 1 hour: Viton® (> 0.7 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.

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### SECTION 8: Exposure controls/personal protection

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** 

Physical state

Colour Black, Blue., Clear., Green., Grey, MCI Base 1, MCI Base 2, MCI Base 3, Off-

white., Orange, Red, White., Yellow., Yellow-base, Yellow-base

Odour : Characteristic. **Odour threshold** : Not applicable. Melting point/freezing point : Not applicable.

Initial boiling point and

boiling range

: Lowest known value: 126°C (258.8°F) (n-butyl acetate). Weighted average:

135.44°C (275.8°F)

**Flammability** : Not applicable. : 0.8 - 7.6% Upper/lower flammability or

explosive limits

Flash point : Closed cup: 25°C (77°F)

**Auto-ignition temperature** Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9,

aromatics).

**Decomposition temperature** : Not available. pН : Not applicable.

**Viscosity** Kinematic (40°C): >20.5 mm<sup>2</sup>/s

Partition coefficient: n-octanol/: Not available.

water

Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Vapour pressure

Weighted average: 0.89 kPa (6.68 mm Hg) (at 20°C)

**Evaporation rate** : Highest known value: 1 (n-butyl acetate) Weighted average: 0.85compared with

butyl acetate

: 1.154 to 1.296 g/cm<sup>3</sup> **Density** 

Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.79 Vapour density

(Air = 1)

**Explosive properties** Not available. **Oxidising properties** : Not available.

**Particle characteristics** 

: Not applicable. Median particle size

### 9.2 Other information

No additional information.

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### SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of hazardous reactions

: No specific test data related to reactivity available for this product or its ingredients.

: Stable under recommended storage and handling conditions (see Section 7).

: 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.

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 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, 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, comps. with polyethylene glycol hydrogen maleate C9-11-alkyl ethers, fatty acids, C14-18 and C16-18-unsatd., maleated. May produce an allergic reaction.

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Vapour	Rat	20 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	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
2-methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Oral	Rat	8532 mg/kg	-
mesitylene	LC50 Inhalation Vapour	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5000 mg/kg	-
2,6-dimethylheptan-4-one	LD50 Dermal	Rabbit	16120 mg/kg	-
	LD50 Oral	Rat	5750 mg/kg	-
maleic anhydride	LD50 Oral	Rat	400 mg/kg	-
carbon black	LD50 Oral	Rat	>15400 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-

### **Acute toxicity estimates**

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### **SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Hardtop Flexi Comp A (MM-WCSE)	N/A	7125.2	N/A	94.2	N/A
xylene	4300	1100	N/A	20	N/A
n-butyl acetate	13100	N/A	N/A	N/A	N/A
ethylbenzene	3500	N/A	N/A	17.8	N/A
2-methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
mesitylene	5000	N/A	N/A	24	N/A
2,6-dimethylheptan-4-one	5750	16120	N/A	N/A	N/A
maleic anhydride	400	N/A	N/A	N/A	N/A
toluene	N/A	N/A	N/A	49	N/A
1-methoxy-2-propanol	6600	13000	N/A	N/A	N/A

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours	-
fatty acids, C14-18 and C16-18-unsatd., maleated	Skin - Mild irritant	Mammal - species unspecified	-	-	-
mesitylene	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
2,6-dimethylheptan-4-one	Eyes - Mild irritant	Human	-	15 minutes 25 parts per million	-
	Eyes - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 10 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 Percent	-
toluene	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
2,6-ditert-butyl-p-cresol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Mild irritant	Human	-	48 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	48 hours 500 milligrams	-

### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, comps. with polyethylene glycol hydrogen maleate C9-11-alkyl ethers	skin	Mammal - species unspecified	Sensitising
fatty acids, C14-18 and C16-18-unsatd., maleated	skin	Mammal - species unspecified	Sensitising
maleic anhydride	skin	Mammal - species	Sensitising

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### **SECTION 11: Toxicological information**

unspecified

### **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
n-butyl acetate	Category 3	-	Narcotic effects
hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
mesitylene	Category 3	-	Respiratory tract irritation
2,6-dimethylheptan-4-one	Category 3	-	Respiratory tract irritation
toluene	Category 3	-	Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
silica, crystalline - quartz dioctyltin dilaurate	Category 1	inhalation - inhalation -	hearing organs lungs immune system respiratory system -

### **Aspiration hazard**

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

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

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

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

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### **SECTION 11: Toxicological information**

**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	Exposure
xylene	Acute LC50 8500 μg/l Marine water	Crustaceans - Daggerblade grass shrimp - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	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
trizinc bis(orthophosphate)	Acute LC50 0.14 mg/l	Fish - Oncorhynchus mykiss	96 hours
` ' ' '	Chronic NOEC 0.1 mg/l	Micro-organism	4 hours
hydrocarbons, C9, aromatics	o o	Daphnia	48 hours
, ,	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 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
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	Acute EC50 1.68 mg/l	Algae	96 hours
, ,	Acute LC50 0.9 mg/l	Fish	96 hours
	Chronic NOEC 1 mg/l	Daphnia	21 days
mesitylene	Acute LC50 12520 to 15050 µg/l Fresh water	Fish - Goldfish - Carassius auratus	96 hours
maleic anhydride	Acute LC50 230 ppm Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours

**Conclusion/Summary** 

: Water polluting material. May be harmful to the environment if released in large quantities. This material is toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene trizinc bis(orthophosphate) hydrocarbons, C9, aromatics mesitylene	- - - -	- - -	Readily Readily Not readily Not readily Not readily

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### **SECTION 12: Ecological information**

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
xylene	3.12	8.1 to 25.9	low
n-butyl acetate	2.3	-	low
ethylbenzene	3.6	-	low
trizinc bis(orthophosphate)	-	60960	high
hydrocarbons, C9, aromatics	-	10 to 2500	high
2-methoxy-1-methylethyl	1.2	-	low
acetate			
mesitylene	3.42	161	low
dioctyltin dilaurate	-	<100	low
2,6-dimethylheptan-4-one	3.71	-	low
maleic anhydride	-2.78	-	low
toluene	2.73	90	low
1-methoxy-2-propanol	<1	-	low
2,6-ditert-butyl-p-cresol	5.1	330 to 1800	high

#### 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.

#### **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 Waste catalogue

Yes.

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

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### **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	IATA
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	3	3
14.4 Packing group	III	III	III	III
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 ≤5 L or ≤5 kg.

Hazard identification number 30

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.

Emergency schedules F-E, S-E

**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** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

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### **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	

### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
silica, crystalline - quartz		silica, respirable crystalline respirable fraction	Carc.	-
lead	UK Occupational Exposure Limits EH40 - WEL	lead	Carc.	-

#### **EU regulations**

Industrial emissions (integrated pollution prevention and control) - : Not listed

Air

Industrial emissions (integrated pollution prevention and control) - : Not listed

Water

### **International regulations**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

### Rotterdam Convention on 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.

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### **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. 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
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.
H360D	May damage the unborn child.
H360FD	May damage fertility. May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H362	May cause harm to breast-fed children.
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 text of classifications**

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

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 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

Lact. REPRODUCTIVE TOXICITY - Effects on or via lactation

Repr. 1A
Repr. 1B
Repr. 2
Resp. Sens. 1
Skin Corr. 1B
Skin Irrit. 2
REPRODUCTIVE TOXICITY - Category 1B
REPRODUCTIVE TOXICITY - Category 2
RESPIRATORY SENSITISATION - Category 1
SKIN CORROSION/IRRITATION - Category 1B

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**

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

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