

Hardtop AX Comp A

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

1.1 Product identifier	
Product name	: Hardtop AX Comp A
UFI	: UWMF-E1G5-K00R-5RGR
Product code	: 16480
Product description	: Paint.
Product type	: Liquid.
Other means of identification	: Not available.

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

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	

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.Supplier: +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 Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

Hazard pictograms



1/23

SECTION 2. Hazarus		
Signal word	:	Warning.
Hazard statements	:	H226 - Flammable liquid and vapour. H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
General	1	Not applicable.
Prevention	:	 P280 - Wear protective gloves. 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.
Response	:	 P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. 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.
Storage	1	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	1	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	ner	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	1	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	:	None known.

not result in classification

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Туре
barium sulfate	EC: 231-784-4 CAS: 7727-43-7	≥10 - ≤25	Not classified.	[2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
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	≤3	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2,	[1]

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pentane-2,4-dione	REACH #: 01-2119458968-15 EC: 204-634-0	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311	[1]
	CAS: 123-54-6		Acute Tox. 3, H331	
2-methoxy-1-methylethyl acetate	Index: 606-029-00-0 REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
ecanedioic acid, 1,10-bis 1,2,2,6,6-pentamethyl- -piperidinyl) ester, mixt. with -methyl 10-	Index: 607-195-00-7 CAS: 1065336-91-5	≤2.1	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1)	[1]
1,2,2,6,6-pentamethyl- -piperidinyl) decanedioate			Àquatic Chronic 1, H410 (M=1)	
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	<1	Flam. Liq. Ź, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
2-methylpropan-2-ol	EC: 200-889-7 CAS: 75-65-0 Index: 603-005-00-1	<1	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	[1] [2]
liiron trioxide	REACH #: 01-2119457614-35 EC: 215-168-2 CAS: 1309-37-1	≤1	Not classified.	[2]
Propenoic acid, 2-methyl-, 2- dimethylamino)ethyl ester, olymer with butyl 2-propenoate, ompd. with polyethylene glycol ydrogen maleate C9-11-alkyl thers	CAS: 1259547-09-5	<1	Skin Sens. 1, H317	[1]
tanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≤0.3	Carc. 2, H351 (inhalation)	[1] [2] [*]
2-Hydroxyethyl methacrylate	EC: 212-782-2 CAS: 868-77-9 Index: 607-124-00-X	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
ilica, crystalline - quartz	EC: 238-878-4 CAS: 14808-60-7	≤0.1	STOT RE 2, H373 (lungs) (inhalation)	[1] [2]
nethyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≤0.1	Flam. Lìq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
lioctyltin dilaurate	EC: 222-883-3 CAS: 3648-18-8	≤0.1	Repr. 1B, H360D STOT RE 1, H372 (immune system)	[1] [2]
naleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT RE 1, H372 (respiratory system) (inhalation)	[1] [2
1-methoxy-2-propanol	REACH #:	≤0.1	EUH071 Flam. Liq. 3, H226	[1] [2]

SECTION 3: Composition/information on ingredients

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silica, amorphous, fumed, cryst free	01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3 REACH #: 01-2119379499-16 EC: 231-545-4 CAS: 112945-52-5	≤0.1	STOT SE 3, H336 Not classified.	[2]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, 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 if irritation occurs.
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 necessary, call a poison center or physician. 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

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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 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, 2-hydroxyethyl methacrylate. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
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

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5.1 Extinguishing media Suitable extinguishing	: Recommended: alcohol-resistant foam, CO ₂ , powders, water spray.
media	· Recommended, alcohol-resistant loant, CO ₂ , 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 harmful 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
	sulfur oxides
	halogenated compounds
	carbonyl halides
	metal oxide/oxides
5.3 Advice for firefighters	
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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.
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

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 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					
barium sulfate	EH40/2005 WELs (United Kingdom (UK), 1/2020).					
	TWA: 4 mg/m ³ 8 hours. Form: respirable dust TWA: 10 mg/m ³ 8 hours. Form: inhalable dust					
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).					
	STEL: 966 mg/m ³ 15 minutes.					
	STEL: 200 ppm 15 minutes.					
	TWA: 724 mg/m ³ 8 hours.					
	TWA: 150 ppm 8 hours.					
talc (non-asbestos form)	EH40/2005 WELs (United Kingdom (UK), 1/2020).					
	TWA: 1 mg/m ³ 8 hours. Form: respirable dust					
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.					
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SECTION 8: Exposure of	controls/personal protection
	STEL: 548 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 274 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
acetone	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 3620 mg/m ³ 15 minutes.
	STEL: 1500 ppm 15 minutes. TWA: 1210 mg/m³ 8 hours.
	TWA: 1210 flig/iff o flours. TWA: 500 ppm 8 hours.
2-methylpropan-2-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 462 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 308 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
diiron trioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 10 mg/m ³ , (as Fe) 15 minutes. Form: Fume
	TWA: 5 mg/m ³ , (as Fe) 8 hours. Form: Fume
	TWA: 4 mg/m ³ 8 hours. Form: respirable
	TWA: 10 mg/m ³ 8 hours. Form: total inhalable
titanium dioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 4 mg/m ³ 8 hours. Form: respirable
	TWA: 10 mg/m ³ 8 hours. Form: total inhalable
silica, crystalline - quartz	EH40/2005 WELs (United Kingdom (UK), 1/2020).
mothyl motheografiete	TWA: 0.1 mg/m ³ 8 hours. Form: Respirable fraction
methyl methacrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 416 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 208 mg/m ³ 8 hours.
	TWA: 50 ppm 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.
maleic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation
	sensitiser.
	STEL: 3 mg/m ³ 15 minutes.
	TWA: 1 mg/m ³ 8 hours.
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.

silica, amorphous, fumed, cryst.-free

Biological exposure indices

No exposure indices known.

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

STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

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

DNELs/DMELs

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Product/ingredient name	Туре	Exposure	Value	Population	Effects
barium sulfate	DNEL	Long term Inhalation	10 mg/m ³	Workers	Local
	DNEL	Long term	10 mg/m³	General population	Systemic
	DNEL	Long term	10 mg/m³	Workers	Systemic
	DNEL	Inhalation Long term Oral	13000 mg/	General	Systemic
n-butyl acetate	DNEL	Short term Inhalation	kg bw/day 960 mg/m³	population Workers	Systemic
	DNEL	Short term Inhalation	960 mg/m³	Workers	Local
	DNEL	Long term Inhalation	480 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	480 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	859.7 mg/ m³	General population	Systemic
	DNEL	Short term Inhalation	859.7 mg/ m³	[Consumers] General population	Local
	DNEL	Long term Inhalation	102.34 mg/ m³	[Consumers] General population	Systemic
	DNEL	Long term Inhalation	102.34 mg/ m³	[Consumers] General population	Local
	DNEL	Short term Oral	2 mg/kg bw/day	[Consumers] General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m ³	General population	Local
	DNEL	Short term Inhalation	300 mg/m ³	General population	Local
	DNEL	Short term Inhalation	300 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m ³	Workers	Systemic
talc (non-asbestos form)	DNEL	Short term Inhalation	1.08 mg/m ³	population	Systemic
	DNEL	Long term Inhalation	1.08 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1.8 mg/m³	General population	Local

	DNEL	Long term	1.8 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term Inhalation	2.16 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	2.16 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	2.27 mg/ cm²	General population	Local
	DNEL	Short term Inhalation	3.6 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	3.6 mg/m ³	Workers	Local
	DNEL	Long term Dermal	4.54 mg/ cm²	Workers	Local
	DNEL	Long term Dermal	21.6 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	43.2 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Oral	160 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	160 mg/kg bw/day	General population	Systemic
hydrocarbons, C9, aromatics	DNEL	Long term Dermal	12.5 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	151 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	7.5 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	32 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	7.5 mg/kg bw/day	General population [Consumers]	Systemic
pentane-2,4-dione	DNEL	Long term Oral	7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	12 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	84 mg/m ³	Workers	Systemic
2-methoxy-1-methylethyl acetate	DNEL	Long term Dermal	153.5 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	275 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	54.8 mg/ kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	33 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	1.67 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	33 mg/m³	[Consumers] General population	Local
	DNEL	Long term Inhalation	33 mg/m³	General population	Systemic
	DNEL	Long term Oral	36 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	275 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	320 mg/kg bw/day	General population	Systemic

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	DNEL	Short term Inhalation	550 mg/m³	Workers	Local
	DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
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)	DNEL	Long term Oral	0.18 mg/ kg bw/day	General population	Systemic
decanedioate					
	DNEL	Long term Inhalation	0.31 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.9 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.27 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	1.8 mg/kg bw/day	Workers	Systemic
acetone	DNEL	Long term Oral	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	186 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	200 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	1210 mg/ m³	Workers	Systemic
	DNEL	Short term Inhalation	2420 mg/ m ³	Workers	Local
2-methylpropan-2-ol	DNEL	Long term Oral	0.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.5 mg/m³	General population	Systemic
	DNEL	Long term Dermal	2.7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.7 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	5.5 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	159.8 mg/ m³	General population	Systemic
	DNEL	Short term Inhalation	214 mg/m ³	Workers	Systemic
2-Hydroxyethyl methacrylate	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.3 mg/kg bw/day	Workers	Systemic
	DNEL DNEL	Long term Inhalation Long term	2.9 mg/m ³ 4.9 mg/m ³	General population Workers	Systemic Systemic
methyl methacrylate	DNEL	Inhalation Long term Oral	8.2 mg/kg	General	Systemic
	DNEL	Short term	bw/day 208 mg/m ³	population General	Local
	DNEL	Inhalation Short term	416 mg/m ³	population Workers	Local
	DNEL	Inhalation Short term Dermal	1.5 mg/cm ²		Local
	DNEL	Long term Dermal	1.5 mg/cm ²	population General	Local
	DNEL	Short term Dermal	1.5 mg/cm ²	population	Local

	DNEL	Long term Dermal	1.5 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	8.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	13.67 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	74.3 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	104 mg/m³	General	Local
	DNEL	Long term Inhalation	208 mg/m³	Workers	Local
	DNEL	Long term Inhalation	348.4 mg/ m³	Workers	Systemic
lioctyltin dilaurate	DNEL	Long term Oral	0.0005 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.0009 mg/ m ³	General population	Systemic
	DNEL	Long term Inhalation	0.0035 mg/ m ³		Systemic
naleic 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/m ³	Workers	Local
	DNEL	Short term Inhalation	0.2 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	0.05 mg/m ³	population	Systemic
	DNEL	Long term Oral	0.06 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.08 mg/m ³	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
-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	43.9 mg/m ³	population	Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/ m ³	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/ m³	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
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	-
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l	-
	Marine	0.0635 mg/l	-
	Sewage Treatment Plant	100 mg/l	-
	Fresh water sediment	3.29 mg/kg dwt	-
	Marine water sediment	0.329 mg/kg dwt	-
	Soil	0.29 mg/kg dwt	-
1-methoxy-2-propanol	Fresh water	10 mg/l	-
	Marine	1 mg/l	-
	Sewage Treatment Plant	100 mg/l	-
	Fresh water sediment	52.3 mg/kg dwt	-
	Marine water sediment	5.2 mg/kg dwt	-
	Soil	5.49 mg/kg dwt	-

SECTION 8: Exposure controls/personal protection

8.2	Exp	osure	contro	s
0.2		03010	CONTRO	-

contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any low explosive limits. Use explosion-proof ventilation equipment.	Appropriate engineering controls	controls also need to keep gas, vapour or dust concentrations below any lower
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Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: 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: safety glasses with side-shields.

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

SECTION 8: Exposure controls/personal protection

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

Recommended, gloves(breakthrough time) > 8 hours: Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm), butyl rubber (> 0.4 mm)

May be used, gloves(breakthrough time) 4 - 8 hours: 4H/Silver Shield® (> 0.07 mm), neoprene (> 0.35 mm), nitrile rubber (> 0.4 mm), PVC (> 0.5 mm), 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.
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

<u>Appearance</u>		
Physical state	: Liquid.	
Colour	: Brown., Black, Blue., Brown., Clear., Green., Grey, MCI Base 1, MCI Base 2 MCI Base 3, MCI Base 5, MCI Base 6, Off-white., Orange, Orange, Red, Vio White.,Yellow.,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: 134.09°C (273.4°F)	
Flammability	: Not applicable.	
Upper/lower flammability or explosive limits	: 1.05 - 11.6%	
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)	:	
Media	Result	
cold water hot water	Not soluble Not soluble	
Partition coefficient: n-octanol water	: Not available.	

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SECTION 9: Physical and chemical properties

-	
Vapour pressure	: Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 1.24 kPa (9.3 mm Hg) (at 20°C)
Evaporation rate	: Highest known value: 1 (n-butyl acetate) Weighted average: 0.91compared with butyl acetate
Density	: 1.323 to 1.509 g/cm ³
Vapour density	 Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 4 (Air = 1)
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

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	1	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	1	When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	1	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, 2-hydroxyethyl methacrylate. May produce an allergic reaction.

Acute toxicity

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
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	-
pentane-2,4-dione	LD50 Oral	Mouse	951 mg/kg	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
2-hydroxyethyl methacrylate	LD50 Oral	Rat	5050 mg/kg	-
methyl methacrylate	LC50 Inhalation Vapour	Rat	78000 mg/m ³	4 hours
5	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	7872 mg/kg	-
maleic anhydride	LD50 Oral	Rat	400 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 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 AX Comp A (MM-WCS)	39157.8	23494.7	N/A	234.9	N/A
n-butyl acetate	13100	N/A	N/A	N/A	N/A
pentane-2,4-dione	500	300	N/A	3	N/A
2-methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
acetone	5800	N/A	N/A	N/A	N/A
2-methylpropan-2-ol; tert-butyl alcohol	N/A	N/A	N/A	11	N/A
2-hydroxyethyl methacrylate	5050	N/A	N/A	N/A	N/A
methyl methacrylate	7872	N/A	N/A	78	N/A
maleic anhydride	400	N/A	N/A	N/A	N/A
1-methoxy-2-propanol	6600	13000	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
pentane-2,4-dione	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	6 hours 11.2	-
				Mililiters	
				Intermittent	
	Skin - Mild irritant	Rabbit	-	488	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	48 hours	-
				11.2 Mililiters	
				Intermittent	
	Skin - Moderate irritant	Rabbit	-	6 hours 33.6	-
				Mililiters	
	Even Mild invitent			Intermittent	
acetone	Eyes - Mild irritant	Human	-	186300 parts per million	-
	Eyes - Mild irritant	Mammal -		per million	
	Eyes - Mild Initant	species	-	-	-
		unspecified			
	Eyes - Mild irritant	Rabbit	_	10 microliters	_
	Eyes - Moderate irritant	Rabbit	_	24 hours 20	_
		1 CODDIC		milligrams	
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	395	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
2-methylpropan-2-ol; tert-	Eyes - Mild irritant	Mammal -	-	-	-
butyl alcohol		species			
		unspecified			

SECTION 11: Toxicological information

	Eyes - Severe irritant	Rabbit	-	24 hours 100	-
	, ,			microliters	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				microliters	
titanium dioxide	Skin - Mild irritant	Human	-	72 hours	-
2-hydroxyethyl methacrylate	Eyes - Mild irritant	Mammal -	-	-	-
		species			
		unspecified			
	Skin - Mild irritant	Mammal -	-	-	-
		species			
		unspecified			
methyl methacrylate	Skin - Mild irritant	Mammal -	-	-	-
		species			
		unspecified			
maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 Percent	-
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-

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
2-hydroxyethyl methacrylate	skin	Mammal - species unspecified	Sensitising
methyl methacrylate	skin	Mammal - species unspecified	Sensitising
maleic anhydride	skin	Mammal - species unspecified	Sensitising

Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

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
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
acetone	Category 3	-	Narcotic effects
2-methylpropan-2-ol; tert-butyl alcohol	Category 3	-	Respiratory tract irritation
methyl methacrylate	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
silica, crystalline - quartz dioctyltin dilaurate maleic anhydride	Category 2 Category 1 Category 1	inhalation - inhalation	lungs immune system respiratory system

Aspiration hazard

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

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: May cause drowsiness or dizziness.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the	e physical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
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
hydrocarbons, C9, aromatics	Acute EC50 <10 mg/l	Daphnia	48 hours
-	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours
pentane-2,4-dione	Acute EC50 75000 µg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia reticulata - Larvae	48 hours
	Acute LC50 47600 μg/l Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	48 hours
	Acute LC50 60100 μg/l Fresh water	Fish - Bluegill - Lepomis macrochirus	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 Chronic NOEC 1 mg/l	Fish Daphnia	96 hours 21 days
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
ate of issue/Date of revision	: 27.03.2023 Date of previous issue	: No previous validation Version	:1 18

SECTION 12: Ecological information

	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
maleic anhydride	Acute LC50 230 ppm Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours

12.2 Persistence and degradability

Conclusion/Summary	: Not available.
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Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
hydrocarbons, C9, aromatic	3 -	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
n-butyl acetate	2.3	-	low	
hydrocarbons, C9, aromatics	-	10 to 2500	high	
pentane-2,4-dione	0.68	-	low	
2-methoxy-1-methylethyl acetate	1.2	-	low	
acetone	-0.23	-	low	
2-methylpropan-2-ol; tert- butyl alcohol	0.317	5.01	low	
2-hydroxyethyl methacrylate	0.42	-	low	
methyl methacrylate	1.38	-	low	
dioctyltin dilaurate	-	<100	low	
maleic anhydride	-2.78	-	low	
1-methoxy-2-propanol	<1	-	low	

12.4 Mobility in soil	
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.

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 : Yes.

SECTION 13: Disposal considerations

Waste coo	le	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
Special precautions	taken when Empty conta residues ma container.	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned nternally. 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 Paint Paint Paint Paint 14.2 UN proper shipping name 14.3 Transport 3 3 3 3 hazard class(es) ш Ш 14.4 Packing Ш Ш group No. 14.5 No. Yes. No. **Environmental** hazards **Additional information ADR/RID** : Hazard identification number 30 Tunnel code (D/E) ADR/RID: Viscous substance. Not restricted, ref. chapter 2.2.3.1.5 (applicable to receptacles < 450 litre capacity). **ADN** : The product is only regulated as an environmentally hazardous substance when transported in tank vessels. IMDG : Emergency schedules F-E, S-E

IMDG: Viscous substance. Transport in accordance with paragraph 2.3.2.5 (applicable to receptacles < 450 litre capacity).

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

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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.

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

National regulations

National regulations				
Product/ingredient name	List name	Name on list	Classification	Notes
silica, crystalline - quartz	UK Occupational Exposure Limits EH40 - WEL	silica, respirable crystalline respirable fraction	Carc.	-
EU regulations	·			
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed			
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed			
nternational regulations				
Chemical Weapon Convention	on List Schedules I, II &	III Chemicals		
Not listed.				
Montreal Protocol Not listed.				
Stockholm Convention on P Not listed.	ersistent Organic Pollut	ants		
Rotterdam Convention on P Not listed.	rior Informed Consent (I	PIC)		

SECTION 15: Regulatory information

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 cha	anged from previously issued version.
Abbreviations and : AT acronyms GE Pa No DM DM EU N/ PE PM RF SO	 FE = Acute Toxicity Estimate B CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and ackaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 D. 720 and amendments MEL = Derived Minimal Effect Level NEL = Derived No Effect Level JH statement = GB CLP-specific Hazard statement A = Not available BT = Persistent, Bioaccumulative and Toxic NEC = Predicted No Effect Concentration RN = REACH Registration Number GG = Segregation Group VB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Sens. 1, H317	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	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.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
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.
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 text of classifications

SECTION 16: Other information

Acute Tox. 3	ACUTE TOXICITY - Category 3		
Acute Tox. 4	ACUTE TOXICITY - Category 4		
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1		
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1		
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2		
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3		
Asp. Tox. 1	ASPIRATION HAZARD - Category 1		
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. 1B	REPRODUCTIVE TOXICITY - Category 1B		
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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