

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Product Reference code:according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 SDS Ref. (EU): RMUWAL-SDS

Issue date: 02/09/2020 Revision date: 10/11/2022 Supersedes version of: 03/12/2020 Version: 3.0

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

1.1. Product identifier	
Product form Trade name UFI Product code Vaporizer Product group	 Mixture RAPTOR 1K MULTI-USE PROTECTIVE COATING AEROSOL KTH1-804M-F00G-HYUN RMUW/AL aerosol aerosol
1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses	

Intended for general public Main use category Use of the substance/mixture Function or use category

Industrial use, Professional use, Consumer useCoatings and paints, thinners, paint removers

: Topcoat

1.2.2. Uses advised against

No additional information available

1.3. Details	of the supplier	of the safety	data sheet
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Manufacturer

U-POL Limited Ltd Denington Road GB– NN8 2QH Wellingborough – Northamptonshire United Kingdom T +44 (0) 1933 230310 technicalsupport@u-pol.com - www.u-pol.com Importer U-POL Netherlands B.V. B.V. Hoorgoorddreef 15 NL– 1101BA Amsterdam Netherlands T +31 20 240 2216 technicalsupport@u-pol.com - www.u-pol.com

1.4. Emergency telephone number

Emergency number

: CHEMTREC: +44 (0) 870 8200418 (24 hrs)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	NHS England, Scotland & Wales	-	Call 111 or a Doctor	In Northern Ireland, contact your local GP or pharmacist during normal hours (www.gpoutofhours.h scni.net)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol, Category 1

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Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS07 GHS02 GHS09 Signal word (CLP) : Danger Contains methyl acetate, reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4hydroxyphenyl)propionyloxypoly(oxyethylene), reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Hazard statements (CLP) : H222 - Extremely flammable aerosol. H229 - Pressurised container: May burst if heated. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H411 - Toxic to aquatic life with long lasting effects. Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Pressurized container: Do not pierce or burn, even after use. P261 - Avoid breathing vapours, spray, fume. P280 - Wear eye protection, protective clothing, protective gloves. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. **EUH-statements** EUH066 - Repeated exposure may cause skin dryness or cracking.

Unknown acute toxicity (CLP) - SDS

P) - SDS : 1.92% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

breathe spray or mist.

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methyl acetate	CAS-No.: 79-20-9 EC-No.: 201-185-2 EC Index-No.: 607-021-00-X REACH-no: 01-2119459211- 47	10 – 20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
acetone substance with a Community workplace exposure limit	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8 REACH-no: 01-2119471330- 49	10 – 20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
n-butyl acetate substance with a Community workplace exposure limit	CAS-No.: 123-86-4 EC-No.: 204-658-1 EC Index-No.: 607-025-00-1 REACH-no: 01-2119485493- 29	5 – 10	Flam. Liq. 3, H226 STOT SE 3, H336
trizinc bis(orthophosphate)	CAS-No.: 7779-90-0 EC-No.: 231-944-3 EC Index-No.: 030-011-00-6 REACH-no: 01-2119485044- 40	3 – 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
reaction mass of ethylbenzene, m-xylene and p- xylene	EC-No.: 905-562-9 REACH-no: 01-2119555267- 33	3-5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
hydrocarbons, C9, aromatics	CAS-No.: 64742-95-6 EC-No.: 918-668-5 REACH-no: 01-2119455851- 35	3 – 5	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 μm]	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379- 17	< 2.5	Carc. 2, H351
reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert- butyl-4-hydroxyphenyl)propionyl-ω- hydroxypoly(oxyethylene) and α-3-(3-(2H- benzotriazol-2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2- yl)-5-tert-butyl-4- hydroxyphenyl)propionyloxypoly(oxyethylene)	CAS-No.: 104810-48-2 EC-No.: 400-830-7 EC Index-No.: 607-176-00-3 REACH-no: 01-0000015075- 76	0.3 – 1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411
reaction mass of bis(1,2,2,6,6-pentamethyl-4- piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	CAS-No.: 1065336-91-5 EC-No.: 915-687-0 REACH-no: 01-2119491304- 40	0.1 – 0.25	Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case. Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	 Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact First-aid measures after ingestion	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects Symptoms/effects after skin contact	 May cause drowsiness or dizziness. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Indication of any immediate medical attention and special treatment needed	

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. 5.2. Special hazards arising from the substance or mixture Fire hazard : Extremely flammable aerosol. Explosion hazard : Pressurised container: May burst if heated. Hazardous decomposition products in case of fire : Toxic fumes may be released. 5.3. Advice for firefighters : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equip	6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, spray, vapours. Avoid contact with skin and eyes.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment	and cleaning up		
For containment Methods for cleaning up Other information	 Collect spillage. Mechanically recover the product. Dispose of materials or solid residues at an authorized site. 		
6.4. Reference to other sections			

For further information refer to section 13.

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SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
	 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing fume, spray, vapours. Avoid contact with skin and eyes. Wear personal protective equipment. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.	

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

methyl acetate (79-20-9)		
Ireland - Occupational Exposure Limits		
Local name	Methyl acetate	
OEL TWA [1]	610 mg/m ³	
OEL TWA [2]	200 ppm	
OEL STEL	760 mg/m ³	
OEL STEL [ppm]	250 ppm	
Regulatory reference	Chemical Agents Code of Practice 2020	
United Kingdom - Occupational Exposure Limits		
Local name	Methyl acetate	
WEL TWA (OEL TWA) [1]	616 mg/m ³	
WEL TWA (OEL TWA) [2]	200 ppm	
WEL STEL (OEL STEL)	770 mg/m³	
WEL STEL (OEL STEL) [ppm]	250 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
n-butyl acetate (123-86-4)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	n-Butyl acetate	
IOEL TWA	241 mg/m ³	
IOEL TWA [ppm]	50 ppm	
IOEL STEL	723 mg/m ³	
IOEL STEL [ppm]	150 ppm	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831	

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n-butyl acetate (123-86-4)		
Ireland - Occupational Exposure Limits		
Local name	Butyl acetate	
OEL TWA [1]	710 mg/m ³	
OEL TWA [2]	150 ppm	
OEL STEL	950 mg/m³	
OEL STEL [ppm]	200 ppm	
Regulatory reference	Chemical Agents Code of Practice 2020	
United Kingdom - Occupational Exposure Limits		
Local name	Butyl acetate	
WEL TWA (OEL TWA) [1]	724 mg/m ³	
WEL TWA (OEL TWA) [2]	150 ppm	
WEL STEL (OEL STEL)	966 mg/m ³	
WEL STEL (OEL STEL) [ppm]	200 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
Ireland - Occupational Exposure Limits		
Local name	Titanium dioxide	
OEL TWA [1]	10 mg/m³ total inhalable dust 4 mg/m³ respirable dust	
Regulatory reference	Chemical Agents Code of Practice 2020	
United Kingdom - Occupational Exposure Limits		
Local name	Titanium dioxide	
WEL TWA (OEL TWA) [1]	10 mg/m³ 4 mg/m³	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
acetone (67-64-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Acetone	
IOEL TWA	1210 mg/m ³	
IOEL TWA [ppm]	500 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Ireland - Occupational Exposure Limits	·	
Local name	Acetone	
OEL TWA [1]	1210 mg/m ³	
OEL TWA [2]	500 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2020	
Ireland - Biological limit values		

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acetone (67-64-1)			
BLV	50 mg/l Parameter: acetone - Medium: urine - Sampling time: End of shift - Notations: Ns (Non-specific)		
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)		
United Kingdom - Occupational Exposure Limits	United Kingdom - Occupational Exposure Limits		
Local name	Acetone		
WEL TWA (OEL TWA) [1]	1210 mg/m ³		
WEL TWA (OEL TWA) [2]	500 ppm		
WEL STEL (OEL STEL)	3620 mg/m ³		
WEL STEL (OEL STEL) [ppm]	1500 ppm		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

methyl acetate (79-20-9)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	3777 mg/m ³	
Long-term - systemic effects, dermal	88 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	610 mg/m³	
Long-term - local effects, inhalation	305 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, dermal	203 mg/kg bw/day	
Acute - systemic effects, inhalation	3777 mg/m ³	
Acute - systemic effects, oral	203 mg/kg bw/day	
Long-term - systemic effects,oral	44 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	131 mg/m³	
Long-term - systemic effects, dermal	44 mg/kg bodyweight/day	
Long-term - local effects, inhalation	152 mg/m³	
PNEC (Water)		
PNEC aqua (intermittent, freshwater)	1.2 mg/l	
n-butyl acetate (123-86-4)		
DNEL/DMEL (Workers)		
Acute - systemic effects, dermal	11 mg/kg bw/day	
Acute - systemic effects, inhalation	600 mg/m³	
Acute - local effects, inhalation	600 mg/m³	
Long-term - systemic effects, dermal	11 mg/kg bw/day	
Long-term - systemic effects, inhalation	300 mg/m ³	
Long-term - local effects, inhalation	300 mg/m ³	

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n-butyl acetate (123-86-4)	n-butyl acetate (123-86-4)		
DNEL/DMEL (General population)			
Acute - systemic effects, dermal	6 mg/kg bw/day		
Acute - systemic effects, inhalation	300 mg/m ³		
Acute - systemic effects, oral	2 mg/kg bw/day		
Acute - local effects, inhalation	300 mg/m ³		
Long-term - systemic effects,oral	2 mg/kg bw/day		
Long-term - systemic effects, inhalation	35.7 mg/m ³		
Long-term - systemic effects, dermal	6 mg/kg bw/day		
Long-term - local effects, inhalation	35.7 mg/m ³		
PNEC (Water)	-		
PNEC aqua (freshwater)	0.18 mg/l		
PNEC aqua (marine water)	0.018 mg/l		
PNEC aqua (intermittent, freshwater)	0.36 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	0.981 mg/kg dwt		
PNEC sediment (marine water)	0.0981 mg/kg dwt		
PNEC (Soil)			
PNEC soil	0.0903 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	35.6 mg/l		
2-methoxy-1-methylethyl acetate (108-65-6)	·		
DNEL/DMEL (Workers)			
Acute - local effects, inhalation	550 mg/m³		
Long-term - systemic effects, dermal	796 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	275 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	36 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	33 mg/m ³		
Long-term - systemic effects, dermal	320 mg/kg bodyweight/day		
Long-term - local effects, inhalation	33 mg/m ³		
PNEC (Water)			
PNEC aqua (freshwater)	0.635 mg/l		
PNEC aqua (marine water)	0.0635 mg/l		
PNEC aqua (intermittent, freshwater)	6.35 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	3.29 mg/kg dwt		
PNEC sediment (marine water)	0.329 mg/kg dwt		
PNEC (Soil)			
PNEC soil	0.29 mg/kg dwt		

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2-methoxy-1-methylethyl acetate (108-65-6)		
PNEC (STP)		
PNEC sewage treatment plant	100 mg/l	
acetone (67-64-1)	<u>.</u>	
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	2420 mg/m ³	
Long-term - systemic effects, dermal	186 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1210 mg/m ³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	62 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	200 mg/m³	
Long-term - systemic effects, dermal	62 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	10.6 mg/l	
PNEC aqua (marine water)	1.06 mg/l	
PNEC aqua (intermittent, freshwater)	21 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	30.4 mg/kg dwt	
PNEC sediment (marine water)	3.04 mg/kg dwt	
PNEC (Soil)		
PNEC soil	29.5 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	100 mg/l	
reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, inhalation	0.68 mg/m ³ (DGUV DNEL List 2019)	
reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α- 3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-48-2)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	0.05 mg/kg bw/day	
Long-term - systemic effects, inhalation	0.35 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.025 mg/kg bw/day	
Long-term - systemic effects, inhalation	0.085 mg/m³	
Long-term - systemic effects, dermal	0.25 mg/kg bw/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.0023 mg/l	
PNEC aqua (marine water)	0.00023 mg/l	

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reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α- 3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-48-2)	
PNEC (Sediment)	
PNEC sediment (freshwater)	3.37 mg/kg dwt
PNEC sediment (marine water)	0.337 mg/kg dwt
PNEC (Soil)	
PNEC soil	2 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Liquid Appearance : aerosol.

: White.

: aromatic.

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Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: -60 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.855 kg/m ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Pressurised container: May burst if heated.
Oxidising properties	: No data available
Explosive limits	:

9.2. Other information

VOC content Gas group : 555 g/l : Press. Gas (Liq.)

SECTION 10: Stability and reactivity
10.1. Reactivity
Extremely flammable aerosol. Pressurised container: May burst if heated.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1 Information on toxicological	effects
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified
methyl acetate (79-20-9)	
LD50 oral rat	6482 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)

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methyl acetate (79-20-9)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LC50 Inhalation - Rat	49 mg/l	
quartz (14808-60-7)		
LD50 oral rat	> 500 mg/kg	
lithium chloride (7447-41-8)		
LD50 oral rat	526 mg/kg bodyweight Animal: rat, Animal sex: male	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPP 81-2 (Acute Dermal Toxicity)	
LC50 Inhalation - Rat	> 5.57 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)	
C22-30 chlorinated parrafin (chlorination: 42	2-48%) (63449-39-8)	
LD50 oral rat	> 11700 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 81-1 (Acute Oral Toxicity)	
LD50 oral	> 23400 mg/kg bodyweight Animal: mouse, Guideline: EPA OPP 81-1 (Acute Oral Toxicity)	
LD50 dermal rabbit	> 13900 mg/kg	
trizinc bis(orthophosphate) (7779-90-0)		
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LC50 Inhalation - Rat	> 5.41 mg/l/4h (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Read-across, Inhalation (dust))	
n-butyl acetate (123-86-4)		
LD50 oral rat	10760 – 12789 mg/kg bodyweight (Equivalent or similar to OECD 423, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	> 14112 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat	23.4 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat)	
LC50 Inhalation - Rat [ppm]	390 ppm/4h	
LC50 Inhalation - Rat (Vapours)	> 21 mg/l/4h (4 h, OECD Test Guideline 403, rat, vapours)	
2-methoxy-1-methylethyl acetate (108-65-6)		
LD50 oral rat	6190 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat [ppm]	1728 ppm/4h (4 h, OECD Guideline 403 (Acute Inhalation Toxicity), rat, male/female, Inhalation, vapours)	

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titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
LD50 oral rat	 > 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity) 	
LC50 Inhalation - Rat	> 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))	
aluminium oxide, activated (1344-28-1)		
LD50 oral rat	> 15900 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))	
acetone (67-64-1)		
LD50 oral rat	5800 mg/kg bodyweight Animal: rat, Animal sex: female	
LD50 dermal rabbit	> 15800 mg/kg bodyweight (24 h, Rabbit, Male, Weight of evidence, Dermal, 14 day(s))	
LC50 Inhalation - Rat	76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4	
reaction mass of bis(1,2,2,6,6-pentamethyl-4- (1065336-91-5)	piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
LD50 oral rat	3230 mg/kg (OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), rat, male/female)	
LD50 dermal rat	> 3170 mg/kg (OECD Guideline 402 (Acute Dermal Toxicity), read-across,	
reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α 3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-48-2)		
LD50 oral rat	> 5000 mg/kg (OECD Guideline No. 401 (equivalent to Annex V), limit test, rat, male/female)	
LD50 dermal rat	> 2000 mg/kg (OECD Guideline No. 402 (equivalent to Annex V), limit test, rat, male/female)	
LC50 Inhalation - Rat	5800 mg/l (OECD Guideline 403, 14d, rat)	
barium sulfate (7727-43-7)		
LD50 oral rat	> 5000 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, Rat, Read-across, Dermal)	
reaction mass of ethylbenzene, m-xylene and	l p-xylene	
LD50 oral rat	3523 mg/kg (EU Method B.1 (Acute Toxicity (Oral), rat, male)	
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male	
LC50 Inhalation - Rat [ppm]	6350 ppm/4h (4 h, EU Method B.2 (Acute Toxicity (Inhalation)), rat, male, Inhalation, vapours)	
hydrocarbons, C9, aromatics (64742-95-6)		
LD50 oral rat	8400 ml/kg	
LD50 dermal rabbit	3160 mg/kg bodyweight (OECD Guideline 402 (Acute Dermal Toxicity), rat, male/female	
LC50 Inhalation - Rat [ppm]	3400 ppm/4h	
LC50 Inhalation - Rat (Vapours)	> 5 mg/l/4h	
Unknown acute toxicity (CLP) - SDS :	1.92% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation	
Skin corrosion/irritation:Serious eye damage/irritation:Respiratory or skin sensitisation:	(Vapours)) Not classified Causes serious eye irritation. May cause an allergic skin reaction.	

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Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Not classified.	
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans	
reaction mass of ethylbenzene, m-xylene and	l p-xylene	
IARC group	2B - Possibly carcinogenic to humans	
C22-30 chlorinated parrafin (chlorination: 42-	48%) (63449-39-8)	
NOAEL (chronic, oral, animal/male, 2 years)	> 3750 mg/kg bodyweight Animal: rat, Animal sex: male	
NOAEL (chronic, oral, animal/female, 2 years)	100 mg/kg bodyweight Animal: rat, Animal sex: female	
barium sulfate (7727-43-7)		
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)	
NOAEL (chronic, oral, animal/female, 2 years)	75 mg/kg bodyweight Animal: rat, Animal sex: female, Remarks on results: other:Effect type: carcinogenicity (migrated information)	
Reproductive toxicity :	Not classified	
aluminium oxide, activated (1344-28-1)		
NOAEL (animal/male, F0/P)	1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
acetone (67-64-1)		
LOAEL (animal/female, F0/P)	11298 mg/kg bodyweight Animal: mouse, Animal sex: female	
NOAEL (animal/male, F0/P)	900 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Generation not specified (migrated information)	
hydrocarbons, C9, aromatics (64742-95-6)		
NOAEL (animal/male, F0/P)	7500 mg/kg	
NOAEL (animal/female, F0/P)	7500 mg/kg	
STOT-single exposure :	May cause drowsiness or dizziness.	
methyl acetate (79-20-9)		
STOT-single exposure	May cause drowsiness or dizziness.	
n-butyl acetate (123-86-4)		
STOT-single exposure	May cause drowsiness or dizziness.	
acetone (67-64-1)		
STOT-single exposure	May cause drowsiness or dizziness.	
reaction mass of ethylbenzene, m-xylene and p-xylene		
STOT-single exposure	May cause respiratory irritation.	
hydrocarbons, C9, aromatics (64742-95-6)		
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.	
STOT-repeated exposure :	Not classified	
methyl acetate (79-20-9)		
LOAEC (inhalation, rat, vapour, 90 days)	2000 mg/l	
NOAEC (inhalation, rat, vapour, 90 days)	1057 mg/m ³	

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2-methoxy-1-methylethyl acetate (108-65-6)	
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
reaction mass of ethylbenzene, m-xylene and	p-xylene
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day (OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), female)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
hydrocarbons, C9, aromatics (64742-95-6)	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight/day
NOAEC (inhalation, rat, vapour, 90 days)	900 – 1800 mg/m³
Aspiration hazard :	Not classified
RAPTOR 1K MULTI-USE PROTECTIVE COATING AEROSOL	
Vaporizer	aerosol

SECTION 12: Ecological information		
12.1. Toxicity		
Hazardous to the aquatic environment, short-term : (acute)	Toxic to aquatic life with long lasting effects. Not classified Toxic to aquatic life with long lasting effects.	
methyl acetate (79-20-9)		
LC50 - Fish [1]	250 – 350 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	1026.7 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	 > 120 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) 	
trizinc bis(orthophosphate) (7779-90-0)		
LC50 - Fish [1]	0.169 mg/l (ASTM E729-88, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across, Nominal concentration)	
n-butyl acetate (123-86-4)		
LC50 - Fish [1]	18 mg/l Test organisms (species): Pimephales promelas	
LC50 - Fish [2]	62 mg/l (Leuciscus idus, static system)	
EC50 - Crustacea [1]	44 mg/l Test organisms (species): Daphnia sp.	
ErC50 algae	397 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)	
NOEC (chronic)	23 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic crustacea	23 mg/l	

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titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)		
LC50 - Fish [1]	155 mg/l Test organisms (species): other:Japanese Medaka	
EC50 - Crustacea [1]	19.3 mg/l Test organisms (species): Daphnia magna	
EC50 - Crustacea [2]	27.8 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	 > 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) 	
ErC50 algae	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)	
NOEC (chronic)	≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
acetone (67-64-1)		
LC50 - Fish [1]	6210 – 8120 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow- through system, Fresh water, Experimental value, Measured concentration)	
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α 3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-48-2)		
LC50 - Fish [1]	2.8 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 - Crustacea [1]	4 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)	
ErC50 algae	> 100 mg/l (72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)	
reaction mass of ethylbenzene, m-xylene and	l p-xylene	
LC50 - Fish [1]	2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia	
EC50 72h - Algae [1]	1.3 mg/l	
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'	
hydrocarbons, C9, aromatics (64742-95-6)		
LC50 - Fish [1]	9.22 mg/l (Oncorhynchus mykiss)	
EC50 - Crustacea [1]	6.14 mg/l 48 h, Daphnia magna	
ErC50 algae	2.9 mg/l	
12.2. Persistence and degradability		
methyl acetate (79-20-9)		
Persistence and degradability	Readily biodegradable in water.	
trizinc bis(orthophosphate) (7779-90-0)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
	Net applicable	

BOD (% of ThOD)

Not applicable

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according to Regulation (EC) No. 1907/2006 (REACH) with its			
n-butyl acetate (123-86-4)			
Persistence and degradability	Readily biodegradable in water.		
ThOD	2.21 g O ₂ /g substance		
BOD (% of ThOD) 0.46			
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)			
Persistence and degradability Biodegradability: not applicable.			
Chemical oxygen demand (COD)	Not applicable (inorganic)		
ThOD	Not applicable (inorganic)		
acetone (67-64-1)			
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.		
Biochemical oxygen demand (BOD)	1.43 g O ₂ /g substance		
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance		
ThOD 2.2 g O ₂ /g substance			
hydrocarbons, C9, aromatics (64742-95-6)			
Persistence and degradability Readily biodegradable in water.			
12.3. Bioaccumulative potential			
methyl acetate (79-20-9)			
BCF - Fish [1]	< 1 (Pisces, Literature study)		
Partition coefficient n-octanol/water (Log Pow)	0.18 (Experimental value, 20 °C)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
trizinc bis(orthophosphate) (7779-90-0)			
BCF - Other aquatic organisms [1] 116 – 60960 (21 day(s), Gammarus sp., Semi-static system, Salt water, Read-across, Fresh weight)			
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).		
n-butyl acetate (123-86-4)			
Partition coefficient n-octanol/water (Log Pow)	2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method 25 °C)		
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).			
titanium dioxide: [in powder form containing	1 % or more of particles with aerodynamic diameter \leq 10 µm] (13463-67-7)		

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)					
Bioaccumulative potential Not bioaccumulative.					
acetone (67-64-1)					
Partition coefficient n-octanol/water (Log Pow) -0.23 (Test data)					
Bioaccumulative potential Not bioaccumulative.					
reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α- 3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyloxypoly(oxyethylene) (104810-48-2)					
BCF - Fish [1] 2658 – 3430 (502 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)					
Partition coefficient n-octanol/water (Log Pow) 4.6 (Experimental value, Equivalent or similar to OECD 117, 25 °C)					

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12.4. Mobility in soil			
methyl acetate (79-20-9)			
Surface tension 24 mN/m (20 °C)			
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)		
Ecology - soil	Highly mobile in soil.		
trizinc bis(orthophosphate) (7779-90-0)			
Ecology - soil Adsorbs into the soil.			
n-butyl acetate (123-86-4)			
Surface tension 61.3 mN/m (20 °C, 0.1 %, OECD 115: Surface Tension of Aqueous Solutions)			
Organic Carbon Normalized Adsorption Coefficient (Log Koc, SRC PCKOCWIN v2.0, Calculated value) (Log Koc)			
Ecology - soil	Highly mobile in soil.		
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)		
Ecology - soil	Low potential for mobility in soil.		
acetone (67-64-1)			
Surface tension	23300 mN/m (20 °C)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		
Ecology - soil	Highly mobile in soil.		

12.5. Results of PBT and vPvB assessment

Component	
methyl acetate (79-20-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
acetone (67-64-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
n-butyl acetate (123-86-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
trizinc bis(orthophosphate) (7779-90-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 µm] (13463-67-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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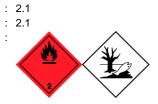
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 14: Transport information		
In accordance with ADR / IMDG / IATA / ADN / F	RID	
14.1 UN number		
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 : UN 1950 	
14.2. UN proper shipping name		
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) Transport document description (IMDG) Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	 AEROSOLS AEROSOLS AEROSOLS Aerosols, flammable AEROSOLS AEROSOLS UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS 	

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) Danger labels (ADR)



: 2.1

: 2.1 :

IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)



Transport hazard class(es) (IATA) Danger labels (IATA)

: 2.1 : 2.1 : 2

ADN

Transport hazard class(es) (ADN) Danger labels (ADN)



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RID Transport hazard class(es) (RID) Danger labels (RID)		
14.4. Packing group		
Packing group (ADR)	: Not applicable	
Packing group (IMDG)	: Not applicable	
Packing group (IATA) Packing group (ADN)	: Not applicable : Not applicable	
Packing group (RID)	: Not applicable	
14.5. Environmental hazards		
Dangerous for the environment	: Yes	
Marine pollutant	: Yes	
Other information	: No supplementary information available	
14.6. Special precautions for user		
Overland transport		
Classification code (ADR)	: 5F	
Special provisions (ADR)	: 190, 327, 344, 625	
Limited quantities (ADR)	: 11	
Excepted quantities (ADR)	: E0 : P207	
Packing instructions (ADR) Special packing provisions (ADR)	: PP87, RR6, L2	
Mixed packing provisions (ADR)	: MP9	
Transport category (ADR)	: 2	
Special provisions for carriage - Packages (ADR)	: V14	
Special provisions for carriage - Loading, unloading and handling (ADR)		
Special provisions for carriage - Operation (ADR)	: S2	
Tunnel restriction code (ADR)	: D	
Transport by sea		
Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959	
Packing instructions (IMDG)	: P207, LP200	
Special packing provisions (IMDG)	: PP87, L2	
EmS-No. (Fire)	: F-D	
EmS-No. (Spillage)	: S-U	
Stowage category (IMDG)	: None	
Stowage and handling (IMDG) Segregation (IMDG)	: SW1, SW22 : SG69	
Air transport		
PCA Excepted quantities (IATA)	: E0	
PCA Excepted quantities (IATA)	: Y203	
PCA limited quantity max net quantity (IATA)	: 30kgG	
PCA packing instructions (IATA)	: 203	
PCA max net quantity (IATA)	: 75kg	
CAO packing instructions (IATA)	: 203	
CAO max net quantity (IATA)	: 150kg	
Special provisions (IATA)	: A145, A167, A802	
ERG code (IATA)	: 10L	
Inland waterway transport		
Classification code (ADN)	: 5F	
Special provisions (ADN)	: 190, 327, 344, 625	
10/11/2022 (Revision date)	EN (English)	20/25

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Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E0
Equipment required (ADN)	:	PP, EX, A
Ventilation (ADN)	:	VE01, VE04
Number of blue cones/lights (ADN)	:	1
Rail transport		
Classification code (RID)	:	5F
Special provisions (RID)	:	190, 327, 344, 625
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E0
Packing instructions (RID)	:	P207, LP200
Special packing provisions (RID)	:	PP87, RR6, L2
Mixed packing provisions (RID)	:	MP9
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W14
Special provisions for carriage - Loading, unloading	:	CW9, CW12
and handling (RID)		
Colis express (express parcels) (RID)	:	CE2
Hazard identification number (RID)	:	23

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	RAPTOR 1K MULTI-USE PROTECTIVE COATING AEROSOL ; methyl acetate ; n-butyl acetate ; acetone ; reaction mass of ethylbenzene, m-xylene and p-xylene ; hydrocarbons, C9, aromatics	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	RAPTOR 1K MULTI-USE PROTECTIVE COATING AEROSOL ; methyl acetate ; n-butyl acetate ; acetone ; reaction mass of ethylbenzene, m-xylene and p-xylene ; hydrocarbons, C9, aromatics ; reaction mass of α -3-(3-(2H- benzotriazol-2-yl)-5-tert- butyl-4- hydroxyphenyl)propionyl- ω - hydroxypoly(oxyethylene) and α -3-(3-(2H- benzotriazol-2-yl)-5-tert- butyl-4- hydroxyphenyl)propionyl- ω - 3-(3-(2H-benzotriazol- 2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol- 2-yl)-5-tert-butyl-4- hydroxyphenyl)propionylo xypoly(oxyethylene) ; reaction mass of bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	RAPTOR 1K MULTI-USE PROTECTIVE COATING AEROSOL ; hydrocarbons, C9, aromatics ; reaction mass of α -3-(3-(2H- benzotriazol-2-yl)-5-tert- butyl-4- hydroxyphenyl)propionyl- ω - hydroxypoly(oxyethylene) and α -3-(3-(2H- benzotriazol-2-yl)-5-tert- butyl-4- hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol- 2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol- 2-yl)-5-tert-butyl-4- hydroxyphenyl)propionylo xypoly(oxyethylene) ; reaction mass of bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
40.	methyl acetate ; n-butyl acetate ; acetone ; reaction mass of ethylbenzene, m-xylene and p-xylene ; hydrocarbons, C9, aromatics	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

Name		Nomenclature	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Acetone	67-64-1	2914 11 00	ex 3824 99 92

Please see https://ec.europa.eu/home-affairs/sites/default/files/what-we-do/policies/crisis-and-terrorism/explosives/explosives-precursors/docs/list_of_competent_authorities_and_national_contact_points_en.pdf

. VOC content

: 555 g/l

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		

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Abbreviations and acronyms:		
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Aerosol 1	Aerosol, Category 1	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
Carc. 2	Carcinogenicity, Category 2	
EUH066	Repeated exposure may cause skin dryness or cracking.	
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	

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Full text of H- and EUH-statements:		
H222	Extremely flammable aerosol.	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H229	Pressurised container: May burst if heated.	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H351	Suspected of causing cancer.	
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.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1A	Skin sensitisation, category 1A	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	

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