



DRIVING SURFACE PERFECTION

RAPTOR 2K WHITE BED LINER AEROSOL

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
 Product Reference code: according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
 SDS Ref. (EU): RLWAL-SDS
 Issue date: 01/06/2018 Revision date: 03/12/2020 Supersedes version of: 31/08/2020 Version: 5.0

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

1.1. Product identifier

Product form : Mixture
 Trade name : RAPTOR 2K WHITE BED LINER AEROSOL
 Product code : RLW/AL
 Vaporizer : aerosol
 Product group : aerosol

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
 Use of the substance/mixture : Coatings and paints, thinners, paint removers
 Function or use category : Coating

1.2.2. Uses advised against

Restrictions on use : Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Supplier

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.
 Hoogoorddreef 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.hscni.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 H222;H229
 Serious eye damage/eye irritation, Category 2 H319
 Skin sensitisation, Category 1 H317
 Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412
 Full text of H- and EUH-statements: see section 16

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Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause an allergic skin reaction. Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS07

Signal word (CLP)

: Danger

Contains

: 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), reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, hexamethylene diisocyanate oligomers

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.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: 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.
P280 - Wear eye protection, protective clothing, protective gloves.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

EUH-statements

: EUH204 - Contains isocyanates. May produce an allergic reaction.
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.

Unknown acute toxicity (CLP) - SDS

: 0.27% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|--|---|
| dimethyl ether (115-10-6) | 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 |
| 2-methoxy-1-methylethyl acetate (108-65-6) | 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 |
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (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 |

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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|----------|--|
| dimethyl ether substance with a Community workplace exposure limit (Note U) | CAS-No.: 115-10-6 EC-No.: 204-065-8 EC Index-No.: 603-019-00-8 REACH-no: 01-2119472128-37 | 20 – 25 | Flam. Gas 1A, H220 Press. Gas (Liq.), H280 |
| 2-methoxy-1-methylethyl acetate substance with a Community workplace exposure limit | CAS-No.: 108-65-6 EC-No.: 203-603-9 EC Index-No.: 607-195-00-7 REACH-no: 01-2119475791-29 | 5 – 20 | Flam. Liq. 3, H226 |
| 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 | 5 – 10 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| hexamethylene diisocyanate oligomers | CAS-No.: 28182-81-2 EC-No.: 500-060-2 REACH-no: 01-2119485796-17 | < 10 | Acute Tox. 4 (Inhalation:vapour), H332 Skin Sens. 1, H317 STOT SE 3, H335 |
| 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 | 2.5 – 10 | Flam. Liq. 3, H226 STOT SE 3, H336 |
| reaction mass of ethylbenzene, m-xylene and p-xylene | EC-No.: 905-562-9 REACH-no: 01-2119555267-33 | 1 – 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 |
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379-17 | 1 – 2.5 | Carc. 2, H351 |
| kieselguhr, soda ash flux calcined | CAS-No.: 68855-54-9 EC-No.: 272-489-0 REACH-no: 01-2119488518-22 | < 2.5 | STOT RE 2, H373 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|------------|---|
| 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 | 0.25 – 0.3 | 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 | 0.25 – 0.3 | Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Note U (Table 3): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : 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 | : 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. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|--|
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| 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

| | |
|------------------------------|--|
| Suitable 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

| | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

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SECTION 6: Accidental release measures

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 contact with skin and eyes. Avoid breathing vapours, fume, spray.

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

Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. 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. Avoid contact with skin and eyes. Avoid breathing vapours, spray, fume. Wear personal protective equipment.
Hygiene measures : 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 in a well-ventilated place. 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

| 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/m ³ |
| 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 |
| dimethyl ether (115-10-6) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Dimethylether |
| IOEL TWA | 1920 mg/m ³ |
| IOEL TWA [ppm] | 1000 ppm |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Ireland - Occupational Exposure Limits | |
| Local name | Dimethyl ether |
| OEL TWA [1] | 1920 mg/m ³ |
| OEL TWA [2] | 1000 ppm |
| Remark | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2020 |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Dimethyl ether |
| WEL TWA (OEL TWA) [1] | 766 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 400 ppm |
| WEL STEL (OEL STEL) | 958 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 500 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| 2-methoxy-1-methylethyl acetate (108-65-6) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | 2-Methoxy-1-methylethylacetate |
| IOEL TWA | 275 mg/m ³ |
| IOEL TWA [ppm] | 50 ppm |

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| 2-methoxy-1-methylethyl acetate (108-65-6) | |
|---|--|
| IOEL STEL | 550 mg/m ³ |
| IOEL STEL [ppm] | 100 ppm |
| Remark | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Ireland - Occupational Exposure Limits | |
| Local name | 2-Methoxy-1-methylethylacetate |
| OEL TWA [1] | 275 mg/m ³ |
| OEL TWA [2] | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Remark | Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2020 |
| United Kingdom - Occupational Exposure Limits | |
| Local name | 1-Methoxypropyl acetate |
| WEL TWA (OEL TWA) [1] | 274 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 50 ppm |
| WEL STEL (OEL STEL) | 548 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 100 ppm |
| Remark | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| 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 | |
| Local name | Acetone |
| BLV | 50 mg/l Parameter: acetone - Medium: urine - Sampling time: End of shift - Notations: Ns (Non-specific) |
| Regulatory reference | Biological Monitoring Guidelines (HSA, 2011) |

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| acetone (67-64-1) | |
|--|--|
| 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 |
| kieselguhr, soda ash flux calcined (68855-54-9) | |
| Ireland - Occupational Exposure Limits | |
| Local name | Diatomaceous earth, natural, respirable dust |
| OEL TWA [1] | 1.2 mg/m ³ |
| Regulatory reference | Chemical Agents Code of Practice 2020 |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 1.2 mg/m ³ |
| 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/m ³ total inhalable dust 4 mg/m ³ 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/m ³ 4 mg/m ³ |
| 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

| n-butyl acetate (123-86-4) | |
|--|-----------------------|
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, dermal | 11 mg/kg bw/day |
| Acute - systemic effects, inhalation | 600 mg/m ³ |
| Acute - local effects, inhalation | 600 mg/m ³ |
| 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) | |
|--|------------------------|
| 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 |
| dimethyl ether (115-10-6) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, inhalation | 1894 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, inhalation | 471 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.155 mg/l |
| PNEC aqua (marine water) | 0.016 mg/l |
| PNEC aqua (intermittent, freshwater) | 1.549 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0.681 mg/kg dwt |
| PNEC sediment (marine water) | 0.069 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.045 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 160 mg/l |

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| 2-methoxy-1-methylethyl acetate (108-65-6) | |
|---|--------------------------|
| DNEL/DMEL (Workers) | |
| Acute - local effects, inhalation | 550 mg/m ³ |
| Long-term - systemic effects, dermal | 796 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 275 mg/m ³ |
| 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 |
| PNEC (STP) | |
| PNEC sewage treatment plant | 100 mg/l |
| acetone (67-64-1) | |
| 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/m ³ |
| 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 |

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| | |
|---|--|
| acetone (67-64-1) | |
| PNEC (STP) | |
| PNEC sewage treatment plant | 100 mg/l |
| kieselguhr, soda ash flux calcined (68855-54-9) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, inhalation | 0.05 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 18.7 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0.05 mg/m ³ |
| PNEC (STP) | |
| PNEC sewage treatment plant | 100 mg/l |
| 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/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 0.025 mg/kg bw/day |
| Long-term - systemic effects, inhalation | 0.085 mg/m ³ |
| 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 |
| 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 |
| 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) |

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.

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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

| Respiratory protection | | | |
|--|--------------|-----------|----------|
| Device | Filter type | Condition | Standard |
| Air-Purifying Respirator (APR), reusable | Filter A2/B2 | | |

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 |
| Colour | : White. |
| Appearance | : aerosol. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Extremely flammable aerosol. |
| Explosive properties | : Pressurised container: May burst if heated. |
| Explosive limits | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : Not available |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50 °C | : Not available |

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| | |
|----------------------------------|---------------------------|
| Density | : 0.975 g/cm ³ |
| Relative density | : Not available |
| Relative vapour density at 20 °C | : Not available |
| Particle size | : Not applicable |
| Particle size distribution | : Not applicable |
| Particle shape | : Not applicable |
| Particle aspect ratio | : Not applicable |
| Particle aggregation state | : Not applicable |
| Particle agglomeration state | : Not applicable |
| Particle specific surface area | : Not applicable |
| Particle dustiness | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 54.8392333196754928

9.2.2. Other safety characteristics

VOC content : 526 g/l

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 hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| 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) |

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| solvent naphtha (petroleum), light aromatic (64742-95-6) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 3160 mg/kg (OECD Test Guideline 402) |
| LC50 Inhalation - Rat (Vapours) | > 6.193 mg/l/4h (4 h, OECD Test Guideline 403, vapours) |
| dimethyl ether (115-10-6) | |
| LC50 Inhalation - Rat [ppm] | 164000 ppm Animal: rat, Animal sex: male, 95% CL: 142000 - 203000 |
| 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) |
| 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 |
| dibutyltin dilaurate (77-58-7) | |
| LD50 oral rat | 2071 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1207 - 5106 |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| kieselguhr, soda ash flux calcined (68855-54-9) | |
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LC50 Inhalation - Rat | > 2.6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| LC50 Inhalation - Rat (Dust/Mist) | > 2.6 mg/l/4h (4 h, OECD Guideline 403 (Acute Inhalation Toxicity), rat, male/female, Experimental value) |
| 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) |
| reaction mass of ethylbenzene, m-xylene and 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) |

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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) | |
| 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) |
| 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) | |
| 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, |
| quartz (14808-60-7) | |
| LD50 oral rat | > 500 mg/kg |
| dolomite (16389-88-1) | |
| LD50 oral rat | > 2000 mg/kg (OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), rat, female, Experimental value) |
| calcium carbonate (471-34-1) | |
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| LC50 Inhalation - Rat | > 3 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) |
| LC50 Inhalation - Rat (Dust/Mist) | > 3 mg/l/4h (4 h, OECD Guidelines 403 (Acute Toxicity Inhalation), rat, male/female, Experimental value) |
| octamethylcyclotetrasiloxane (556-67-2) | |
| LD50 oral rat | > 4800 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 2400 mg/kg bodyweight (Equivalent or similar to OECD 402, Rat, Male / female, Experimental value, Dermal) |
| LC50 Inhalation - Rat | 36 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| decamethylcyclopentasiloxane (541-02-6) | |
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | 8.67 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EPA OTS 798.1150 (Acute inhalation toxicity), 95% CL: 7,3 - 10,32 |
| Dodecamethylcyclohexasiloxane (540-97-6) | |
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) |

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| Dodecamethylcyclohexasiloxane (540-97-6) | |
|--|--|
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| 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)) |
| carbon black (1333-86-4) | |
| LD50 oral rat | > 8000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LC50 Inhalation - Rat | > 4.6 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Experimental value, Inhalation (dust)) |
| 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) |
| hexamethylene-di-isocyanate (822-06-0) | |
| LD50 oral rat | 746 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat | > 7000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | 0.124 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 111 - 140 |
| hexamethylene diisocyanate oligomers (28182-81-2) | |
| LD50 oral rat | > 2500 mg/kg (OECD Test Guideline 423, rat, female) |
| LD50 dermal rat | > 2000 mg/kg (OECD Test Guideline 402, rat, male/female) |
| LC50 Inhalation - Rat (Dust/Mist) | 0.39 mg/l/4h (OECD Test Guideline 403, rat, female, inhalation, dust/mist) |
| Unknown acute toxicity (CLP) - SDS | : 0.27% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours)) |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified. |
| reaction mass of ethylbenzene, m-xylene and p-xylene | |
| IARC group | 2B - Possibly carcinogenic to humans |
| 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 |

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| 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 |
| 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) |
| dibutyltin dilaurate (77-58-7) | |
| NOAEL (animal/male, F0/P) | 1.9 – 2.3 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) |
| NOAEL (animal/female, F0/P) | 1.7 – 2.4 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) |
| 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) |
| STOT-single exposure | : Not classified |
| n-butyl acetate (123-86-4) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| solvent naphtha (petroleum), light aromatic (64742-95-6) | |
| STOT-single exposure | May cause drowsiness or dizziness. May cause respiratory irritation. |
| 2-methoxypropyl acetate (70657-70-4) | |
| STOT-single exposure | May cause respiratory irritation. |
| acetone (67-64-1) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| dibutyltin dilaurate (77-58-7) | |
| STOT-single exposure | Causes damage to organs (thymus). |
| reaction mass of ethylbenzene, m-xylene and p-xylene | |
| STOT-single exposure | May cause respiratory irritation. |
| hexamethylene-di-isocyanate (822-06-0) | |
| STOT-single exposure | May cause respiratory irritation. |
| hexamethylene diisocyanate oligomers (28182-81-2) | |
| STOT-single exposure | May cause respiratory irritation. |
| STOT-repeated exposure | : Not classified |
| 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) |

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| 2-methoxy-1-methylethyl acetate (108-65-6) | |
|---|--|
| NOAEL (dermal, rat/rabbit, 90 days) | > 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
| dibutyltin dilaurate (77-58-7) | |
| STOT-repeated exposure | Causes damage to organs (thymus) through prolonged or repeated exposure. |
| kieselguhr, soda ash flux calcined (68855-54-9) | |
| NOAEL (oral, rat, 90 days) | 3737.9 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure (inhalation). |
| 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. |
| calcium carbonate (471-34-1) | |
| 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) |
| decamethylcyclopentasiloxane (541-02-6) | |
| NOAEL (oral, rat, 90 days) | ≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| NOAEL (dermal, rat/rabbit, 90 days) | ≥ 1600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
| Dodecamethylcyclohexasiloxane (540-97-6) | |
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

Aspiration hazard : Not classified

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|--|---------|
| Vaporizer | aerosol |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

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| 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 |
| dimethyl ether (115-10-6) | |
| LC50 - Fish [1] | > 4.1 g/l Test organisms (species): Poecilia reticulata |
| EC50 - Crustacea [1] | > 4.4 g/l Test organisms (species): Daphnia magna |
| EC50 96h - Algae [1] | 154.917 mg/l Test organisms (species): other:green algae |
| 2-methoxy-1-methylethyl acetate (108-65-6) | |
| LC50 - Fish [1] | > 100 mg/l Test organisms (species): Oryzias latipes |
| EC50 - Crustacea [1] | > 500 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| ErC50 algae | > 1000 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) |
| NOEC (chronic) | ≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | 47.5 mg/l Test organisms (species): Oryzias latipes Duration: '14 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 ethylbenzene, m-xylene and 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' |
| 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) |

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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' |

12.2. Persistence and degradability

| 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 |

| dimethyl ether (115-10-6) | |
|----------------------------------|---|
| Persistence and degradability | Non degradable in the soil. Not readily biodegradable in water. |

| 2-methoxy-1-methylethyl acetate (108-65-6) | |
|---|--|
| Persistence and degradability | Readily biodegradable in the soil. Readily biodegradable in water. |

| 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 |

| kieselguhr, soda ash flux calcined (68855-54-9) | |
|--|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

| 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) |

12.3. Bioaccumulative potential

| 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). |

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| dimethyl ether (115-10-6) | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 0.1 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| 2-methoxy-1-methylethyl acetate (108-65-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.2 (Experimental value, Equivalent or similar to OECD 117, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| acetone (67-64-1) | |
| Partition coefficient n-octanol/water (Log Pow) | -0.23 (Test data) |
| Bioaccumulative potential | Not bioaccumulative. |
| kieselguhr, soda ash flux calcined (68855-54-9) | |
| Bioaccumulative potential | No test data of component(s) available. |
| 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) |
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 μm] (13463-67-7) | |
| Bioaccumulative potential | Not bioaccumulative. |
| 12.4. Mobility in 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) | 1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |
| dimethyl ether (115-10-6) | |
| Surface tension | No data available in the literature |
| Ecology - soil | Not applicable (gas). |
| 2-methoxy-1-methylethyl acetate (108-65-6) | |
| Surface tension | 29.4 mN/m (20 °C, 100 vol %, EU Method A.5: Surface tension) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.602 – 1.079 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile 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. |
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 μm] (13463-67-7) | |
| Ecology - soil | Low potential for mobility in soil. |

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12.5. Results of PBT and vPvB assessment

| Component | |
|--|---|
| dimethyl ether (115-10-6) | 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 |
| 2-methoxy-1-methylethyl acetate (108-65-6) | 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 |
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (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. Endocrine disrupting properties

No additional information available

12.7. 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.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR) : UN 1950
UN-No. (IMDG) : UN 1950
UN-No. (IATA) : UN 1950
UN-No. (ADN) : UN 1950
UN-No. (RID) : UN 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS
Proper Shipping Name (IMDG) : AEROSOLS
Proper Shipping Name (IATA) : Aerosols, flammable
Proper Shipping Name (ADN) : AEROSOLS
Proper Shipping Name (RID) : AEROSOLS
Transport document description (ADR) : UN 1950 AEROSOLS, 2.1, (D)
Transport document description (IMDG) : UN 1950 AEROSOLS, 2.1
Transport document description (IATA) : UN 1950 Aerosols, flammable, 2.1
Transport document description (ADN) : UN 1950 AEROSOLS, 2.1
Transport document description (RID) : UN 1950 AEROSOLS, 2.1

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : 2.1
Danger labels (ADR) : 2.1

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IMDG

Transport hazard class(es) (IMDG) : 2.1
Danger labels (IMDG) : 2.1



IATA

Transport hazard class(es) (IATA) : 2.1
Danger labels (IATA) : 2.1



ADN

Transport hazard class(es) (ADN) : 2.1
Danger labels (ADN) : 2.1



RID

Transport hazard class(es) (RID) : 2.1
Danger labels (RID) : 2.1



14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
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) : 1I
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P207
Special packing provisions (ADR) : PP87, RR6, L2

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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) : CV9, CV12
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) : SW1, SW22
Segregation (IMDG) : SG69

Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited 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
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 and handling (RID) : CW9, CW12
Colis express (express parcels) (RID) : CE2
Hazard identification number (RID) : 23

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|---|----------|----------|
| Section | Changed item | Change | Comments |
| | Supersedes | Added | |
| | Revision date | Modified | |
| | Contains | Added | |
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified | |
| 2.2 | Precautionary statements (CLP) | Modified | |
| 2.2 | EUH-statements | Added | |
| 2.2 | Hazard pictograms (CLP) | Modified | |
| 2.2 | Hazard statements (CLP) | Modified | |
| 3 | Composition/information on ingredients | Modified | |

| 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 |
| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) 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 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 2 | Carcinogenicity, Category 2 |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH204 | Contains isocyanates. May produce an allergic reaction. |
| 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. Gas 1A | Flammable gases, Category 1A |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| 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. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Press. Gas (Liq.) | Gases under pressure : Liquefied gas |
| 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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