

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): S2025BL-SDS Issue date: 27/02/2015 Revision date: 28/08/2020 Supersedes version of: 05/06/2019 Version: 4.0

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

1.1. Product identifier

| | : SYSTEM 20 HIGH BUILD PRIMER BLACK (4:1) : S2025B/1, S2025B/4, S2025B/3T |
|---------------|--|
| Product group | : 2K Primer |

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

1.2.1. Relevant identified uses

| Main use category |
|------------------------------|
| Use of the substance/mixture |
| Function or use category |

: Industrial use,Professional use: Coatings and paints, thinners, paint removers

: Primer

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

| Manufacturer | Importer |
|---|--|
| U-POL Limited Ltd | U-POL Netherlands B.V. B.V. |
| Denington Road | Hoorgoorddreef 15 |
| GB– NN8 2QH Wellingborough – Northamptonshire | NL– 1101BA Amsterdam |
| United Kingdom | Netherlands |
| T +44 (0) 1933 230310 | T +31 20 240 2216 |
| technicalsupport@u-pol.com - www.u-pol.com | 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]Flammable liquids, Category 3H226Serious eye damage/eye irritation, Category 2H319

| Conoco oyo damago, oyo milaton, category 2 | 11010 |
|---|-------|
| Hazardous to the aquatic environment — Chronic Hazard, Category 2 | H411 |
| Full text of H- and EUH-statements: see section 16 | |

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Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements

| Labelling according to Regulation (EC) No. 1272/2 | 008 [CLP] |
|---|--|
| Hazard pictograms (CLP) | |
| | GHS02 GHS07 GHS09 |
| Signal word (CLP) | : Warning |
| Hazard statements (CLP) | H226 - Flammable liquid and vapour. H319 - Causes serious eye irritation. H411 - Toxic to aquatic life with long lasting effects. |
| | P210 - Keep away from heat, hot surfaces, open flames, sparks. — No smoking. P264 - Wash hands thoroughly after handling. P280 - Wear face protection, protective clothing, protective gloves. P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P370+P378 - In case of fire: Use dry sand, extinguishing powder for extinction. 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. |

2.3. Other hazards

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

| Component | |
|---|--|
| 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 |
| 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 |
| Xylene (1330-20-7) | 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 |
| ethylbenzene (100-41-4) | 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 |

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

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3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|--|
| 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 – 20 | 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 | 3 – 10 | 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 |
| rizinc 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 |
| 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 | 3 – 5 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| Xylene substance with a Community workplace exposure limit (Note C) | CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216- 32 | 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 | 0.3 – 3 | Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| ethylbenzene substance with a Community workplace exposure limit | CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4 REACH-no: 01-2119489370- 35 | 1 – 2.5 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304 |

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers. Full text of H- and EUH-statements: see section 16

| SECTION 4: First aid measures | |
|--|---|
| 4.1. Description of first aid measures | |
| | Remove person to fresh air and keep comfortable for breathing. Rinse skin with water/shower. Take off immediately all contaminated clothing. |

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| 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 e | ffects, both acute and delayed | |
| Symptoms/effects after skin contact Symptoms/effects after eye contact | Repeated exposure may cause skin dryness or cracking.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 subst | tance or mixture |
| Fire hazard Hazardous decomposition products in case of fire | Flammable liquid and vapour.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. |

| SECTION 6: Accidental release | measures |
|--|--|
| 6.1. Personal precautions, protect | ive equipment and emergency procedures |
| 6.1.1. For non-emergency personnel | |
| Protective equipment Emergency procedures | Safety glasses. Protective clothing. Gloves.Ventilate spillage area. No open flames, no sparks, and no smoking. 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 cont | ainment and cleaning up |
| For containment | : Contain released product. Collect spillage. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. |
| 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.

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| SECTION 7: Handling and storage | | |
|---|--|--|
| 7.1. Precautions for safe handling | | |
| Precautions for safe handling Hygiene measures | Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. 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 | | |
| Technical measures Storage conditions Storage temperature Storage area Special rules on packaging | Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep cool. Keep container tightly closed. < 25 °C Store in well ventilated area. Keep only in original container. | |
| 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

| contorno (C7 C4 4) | | |
|---|---|--|
| 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) | |
| 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 | |

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| acetone (67-64-1) | | |
|---|---------------------------------------|--|
| WEL STEL (OEL STEL) [ppm] | 1500 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 | |
| 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 | |
| Xylene (1330-20-7) | | |
| EU - Indicative Occupational Exposure Limit (IOEL |) | |
| Local name | Xylene, mixed isomers, pure | |
| IOEL TWA | 221 mg/m ³ | |
| IOEL TWA [ppm] | 50 ppm | |
| IOEL STEL | 442 mg/m ³ | |
| IOEL STEL [ppm] | 100 ppm | |
| Remark | Skin | |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC | |
| Ireland - Occupational Exposure Limits | | |
| Local name | Xylene, mixed isomers | |
| OEL TWA [1] | 221 mg/m ³ | |
| OEL TWA [2] | 50 ppm | |
| OEL STEL | 442 mg/m ³ | |

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| Xylene (1330-20-7) | |
|---|--|
| 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 |
| Ireland - Biological limit values | |
| Local name | Xylene |
| BLV | 1.5 g/g creatinine Parameter: methylhippuric acids - Medium: urine - Sampling time: End of Shift |
| Regulatory reference | Biological Monitoring Guidelines (HSA, 2011) |
| United Kingdom - Occupational Exposure Lin | nits |
| Local name | Xylene |
| WEL TWA (OEL TWA) [1] | 220 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 50 ppm |
| WEL STEL (OEL STEL) | 441 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 |
| United Kingdom - Biological limit values | |
| Local name | Xylene, o-, m-, p- or mixed isomers |
| BMGV | 650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| ethylbenzene (100-41-4) | |
| EU - Indicative Occupational Exposure Limit | (IOEL) |
| Local name | Ethylbenzene |
| IOEL TWA | 442 mg/m ³ |
| IOEL TWA [ppm] | 100 ppm |
| IOEL STEL | 884 mg/m³ |
| IOEL STEL [ppm] | 200 ppm |
| Remark | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Ireland - Occupational Exposure Limits | |
| Local name | Ethylbenzene |
| OEL TWA [1] | 442 mg/m ³ |
| OEL TWA [2] | 100 ppm |
| OEL STEL | 884 mg/m³ |
| OEL STEL [ppm] | 200 ppm |

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| ethylbenzene (100-41-4) | | |
|---|---|--|
| 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 | |
| Ireland - Biological limit values | | |
| Local name | Ethyl benzene | |
| BLV | 0.7 g/g creatinine Parameter: mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: End of shift at end of workweek - Notations: Ns (Non-specific), Sq (Semi- quantitative) Parameter: ethylbenzene - Medium: end-exhaled air - Sampling time: Not critical - Notations: Sq (Semi-quantitative) | |
| Regulatory reference | Biological Monitoring Guidelines (HSA, 2011) | |
| United Kingdom - Occupational Exposure Limits | | |
| Local name | Ethylbenzene | |
| WEL TWA (OEL TWA) [1] | 441 mg/m ³ | |
| WEL TWA (OEL TWA) [2] | 100 ppm | |
| WEL STEL (OEL STEL) | 552 mg/m³ | |
| WEL STEL (OEL STEL) [ppm] | 125 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 | |

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

| 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 | |

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| acetone (67-64-1) | | |
|---|------------------------|--|
| 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 | |
| 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 | |
| DNEL/DMEL (General population) | | |
| Acute - systemic effects, dermal | 6 mg/kg bw/day | |
| Acute - systemic effects, inhalation | 300 mg/m³ | |
| Acute - systemic effects, oral | 2 mg/kg bw/day | |
| Acute - local effects, inhalation | 300 mg/m³ | |
| Long-term - systemic effects,oral | 2 mg/kg bw/day | |
| Long-term - systemic effects, inhalation | 35.7 mg/m³ | |
| Long-term - systemic effects, dermal | 6 mg/kg bw/day | |
| Long-term - local effects, inhalation | 35.7 mg/m³ | |
| 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 (STP) | |
| PNEC sewage treatment plant | 35.6 mg/l | |
| hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics | | |
| DNEL/DMEL (Workers) | | |
| Acute - systemic effects, dermal | 2 mg/kg bodyweight/day | |
| Acute - systemic effects, inhalation | 7 mg/m³ | |

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| hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics | | |
|---|--------------------------|--|
| DNEL/DMEL (General population) | | |
| Acute - systemic effects, dermal | 1 mg/kg bodyweight | |
| Acute - systemic effects, inhalation | 2 mg/m ³ | |
| 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/m ³ | |
| DNEL/DMEL (General population) | | |
| Long-term - systemic effects,oral | 36 mg/kg bodyweight/day | |
| Long-term - systemic effects, inhalation | 33 mg/m³ | |
| 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 | |
| phosphoric acid … %, orthophosphoric acid … % (7664-38-2) | | |
| DNEL/DMEL (Workers) | | |
| Long-term - systemic effects, inhalation | 2.92 mg/m ³ | |
| DNEL/DMEL (General population) | | |
| Long-term - local effects, inhalation | 0.73 mg/m³ | |
| n-butyl acrylate (141-32-2) | | |
| DNEL/DMEL (Workers) | | |
| Acute - local effects, dermal | 0.28 mg/cm ² | |
| Long-term - local effects, dermal | 0.28 mg/cm ² | |
| Long-term - local effects, inhalation | 11 mg/m ³ | |
| PNEC (Water) | | |
| PNEC aqua (freshwater) | 0.00272 mg/l | |
| PNEC aqua (marine water) | 0.00027 mg/l | |
| PNEC aqua (intermittent, freshwater) | 0.011 mg/l | |

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| n-butyl acrylate (141-32-2) | | |
|--|--------------------------|--|
| PNEC (Sediment) | | |
| PNEC sediment (freshwater) | 0.0338 mg/kg dwt | |
| PNEC sediment (marine water) | 0.00338 mg/kg dwt | |
| PNEC (Soil) | | |
| PNEC soil | 1 mg/kg dwt | |
| PNEC (STP) | | |
| PNEC sewage treatment plant | 3.5 mg/l | |
| Xylene (1330-20-7) | | |
| DNEL/DMEL (Workers) | | |
| Acute - systemic effects, inhalation | 289 mg/m³ | |
| Acute - local effects, inhalation | 289 mg/m³ | |
| Long-term - systemic effects, dermal | 180 mg/kg bodyweight/day | |
| Long-term - systemic effects, inhalation | 77 mg/m³ | |
| Long-term - local effects, inhalation | 77 mg/m³ | |
| DNEL/DMEL (General population) | | |
| Acute - systemic effects, inhalation | 174 mg/m³ | |
| Acute - local effects, inhalation | 174 mg/m³ | |
| Long-term - systemic effects,oral | 1.6 mg/kg bodyweight/day | |
| Long-term - systemic effects, inhalation | 14.8 mg/m ³ | |
| Long-term - systemic effects, dermal | 108 mg/kg bodyweight/day | |
| Long-term - local effects, inhalation | 65.3 mg/m³ | |
| PNEC (Water) | | |
| PNEC aqua (freshwater) | 0.327 mg/l | |
| PNEC aqua (marine water) | 0.327 mg/l | |
| PNEC aqua (intermittent, freshwater) | 0.327 mg/l | |
| PNEC (Sediment) | | |
| PNEC sediment (freshwater) | 12.46 mg/kg dwt | |
| PNEC sediment (marine water) | 12.46 mg/kg dwt | |
| PNEC (Soil) | | |
| PNEC soil | 2.31 mg/kg dwt | |
| PNEC (STP) | | |
| PNEC sewage treatment plant | 6.58 mg/l | |
| ethylbenzene (100-41-4) | | |
| DNEL/DMEL (Workers) | | |
| Acute - local effects, inhalation | 293 mg/m³ | |
| Long-term - systemic effects, dermal | 180 mg/kg bodyweight/day | |
| | | |

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| ethylbenzene (100-41-4) | | |
|--|--------------------------|--|
| DNEL/DMEL (General population) | | |
| Long-term - systemic effects,oral | 1.6 mg/kg bodyweight/day | |
| Long-term - systemic effects, inhalation | 15 mg/m ³ | |
| PNEC (Water) | | |
| PNEC aqua (freshwater) | 0.1 mg/l | |
| PNEC aqua (marine water) | 0.01 mg/l | |
| PNEC aqua (intermittent, freshwater) | 0.1 mg/l | |
| PNEC (Sediment) | | |
| PNEC sediment (freshwater) | 13.7 mg/kg dwt | |
| PNEC sediment (marine water) | 1.37 mg/kg dwt | |
| PNEC (Soil) | | |
| PNEC soil | 2.68 mg/kg dwt | |
| PNEC (Oral) | | |
| PNEC oral (secondary poisoning) | 0.02 g/kg food | |
| PNEC (STP) | | |
| PNEC sewage treatment plant | 9.6 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:

Gas mask. Gloves. Protective clothing. Safety glasses.



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

Other skin protection Materials for protective clothing: Impermeable clothing

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8.2.2.3. Respiratory protection

Respiratory protection:

Air-fed respiratory protective equipment should be worn when this product is sprayed

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 | : Black. |
| Appearance | : Viscous. Liquid. |
| Odour | : Characteristic odour. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not applicable |
| Explosive limits | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : 28 °C |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| рН | : Not available |
| Viscosity, kinematic | : 4472.843 mm²/s |
| Viscosity, dynamic | : 7000 (6500 – 7500) cP |
| Solubility | : insoluble in water. soluble in most organic solvents. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50 °C | : Not available |
| Density | : 1.565 (1.55 – 1.58) 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

No additional information available

9.2.2. Other safety characteristics

| VOC content | : 436.7 g/l |
|-------------|-------------|
| | 6 |

| SECTION 10: Stability and reactivity | |
|--------------------------------------|--|
| 10.1. Reactivity | |
| Flammable liquid and vapour. | |

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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 | 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 | | |
| Acute toxicity (dermal) : | Not classified Not classified Not classified | | |
| 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 | | |
| ethyl 3-ethoxypropionate (763-69-9) | | | |
| LD50 oral rat | 5000 mg/kg (Rat, Oral) | | |
| LD50 dermal rabbit | 4076 mg/kg (Rabbit, Dermal) | | |
| LC50 Inhalation - Rat [ppm] | > 998 ppm (OECD Guideline 403 (Acute Inhalation Toxicity), non-GLP, 6h, rat, male) | | |
| 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) | | |
| calcium isononanoate (53988-05-9) | | | |
| LD50 oral rat | 1160 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Read- across, Oral) | | |

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| calcium isononanoate (53988-05-9) | | | |
|--|---|--|--|
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) | | |
| hydrocarbons, C10-C13, n-alkanes, isoalkane | s, cyclics, < 2% aromatics | | |
| LD50 oral rat | > 5000 mg/kg (OECD Guideline 401 (Acute Oral Toxicity), rat, male/female) | | |
| LD50 dermal rabbit | > 5000 mg/kg (OECD Guideline 402 (Acute Dermal Toxicity), rat, male/female) | | |
| LC50 Inhalation - Rat | > 5000 mg/m³ (OECD Guideline 403 (Acute Inhalation Toxicity), 8h, rat, male, vapours) | | |
| dolomite (16389-88-1) | | | |
| LD50 oral rat | > 2000 mg/kg (OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), rat, female, Experimental value) | | |
| magnesium carbonate (546-93-0) | | | |
| 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) | | |
| 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)) | | |
| 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) | | |
| phosphoric acid %, orthophosphoric acid . | % (7664-38-2) | | |
| LD50 oral rat | 301 mg/kg (OECD 423) | | |
| LD50 dermal rabbit | 2750 mg/kg | | |
| 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) | | |
| 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)) | | |

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| n-butyl acrylate (141-32-2) | | |
|---|---|--|
| LD50 oral rat | 9050 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male, Weight of evidence) | |
| LD50 dermal rabbit | 2000 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value) | |
| LC50 Inhalation - Rat | 14.6 mg/l (4 h, Rat, Literature study) | |
| 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) | |
| quartz (14808-60-7) | | |
| LD50 oral rat | > 500 mg/kg | |
| Xylene (1330-20-7) | | |
| LD50 oral rat | 3523 mg/kg bodyweight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Rat, Male, Experimental value, Oral, 14 day(s)) | |
| LD50 dermal rat | 12126 mg/kg (Non-GLP, read-across from supporting substance, single dermal dose under occlusion followed by observation for 14 days) | |
| LD50 dermal rabbit | 12126 mg/kg bodyweight Animal: rabbit, Animal sex: male | |
| LC50 Inhalation - Rat [ppm] | 6700 ppm/4h (EU Method B.2 (Acute Toxicity (Inhalation)), 4h, rat, male) | |
| 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) | |
| 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 | |
| ethylbenzene (100-41-4) | | |
| LD50 oral rat | 3500 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s)) | |
| LD50 dermal rabbit | 15432 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value, Dermal) | |
| LC50 Inhalation - Rat | 17.8 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours)) | |
| Calcium carbonate (1317-65-3) | | |
| LD50 oral rat | 6450 mg/kg (Rat, Literature study, Oral) | |
| silicon dioxide, amorphous (7631-86-9) | · | |
| LD50 oral rat | > 10000 mg/kg (Rat, Oral) | |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit, Dermal) | |
| 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) | |

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| calcium carbonate (471-34-1) | | |
|---|---|--|
| 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) | |
| talc (14807-96-6) | | |
| LD50 oral rat | > 5000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Male, Experimental value, Oral, 14 day(s)) | |
| LD50 dermal rat | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) | |
| LC50 Inhalation - Rat | > 2.1 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 15 day(s)) | |
| Skin corrosion/irritation : | Not classified | |
| Serious eye damage/irritation : | Causes serious eye irritation. | |
| Respiratory or skin sensitisation : | Not classified | |
| Germ cell mutagenicity : | Not classified | |
| Carcinogenicity : | Not classified | |
| reaction mass of ethylbenzene, m-xylene and | | |
| IARC group | 2B - Possibly carcinogenic to humans | |
| Xylene (1330-20-7) | | |
| IARC group | 3 - Not classifiable | |
| ethylbenzene (100-41-4) | | |
| | 2P. Dessibly estainedenic to hymoto | |
| IARC group | 2B - Possibly carcinogenic to humans | |
| 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) | |
| calcium isononanoate (53988-05-9) | | |
| LOAEL (animal/female, F0/P) | 165 – 500 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 (One-Generation Reproduction Toxicity Study) | |
| NOAEL (animal/female, F0/P) | 79 – 228 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 (One-Generation Reproduction Toxicity Study) | |
| phosphoric acid %, orthophosphoric acid | % (7664-38-2) | |
| NOAEL (animal/male, F0/P) | > 500 | |
| (| | |

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| 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) | | |
| 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 : | Not classified | | |
| acetone (67-64-1) | | | |
| STOT-single exposure | May cause drowsiness or dizziness. | | |
| 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. | | |
| dibutyltin dilaurate (77-58-7) | | | |
| STOT-single exposure | Causes damage to organs (thymus). | | |
| n-butyl acrylate (141-32-2) | | | |
| STOT-single exposure | May cause respiratory irritation. | | |
| reaction mass of ethylbenzene, m-xylene and | p-xylene | | |
| STOT-single exposure | May cause respiratory irritation. | | |
| Xylene (1330-20-7) | | | |
| 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 | | |
| ethyl 3-ethoxypropionate (763-69-9) | | | |
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- Day Oral Toxicity in Rodents) | | |
| calcium isononanoate (53988-05-9) | calcium isononanoate (53988-05-9) | | |
| LOAEL (oral, rat, 90 days) | 200 mg/kg bodyweight Animal: rat, Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) | | |
| 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) | | |

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| phosphoric acid %, orthophosphoric acid | % (7664-38-2) | | |
|--|---|--|--|
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) | | |
| dibutyltin dilaurate (77-58-7) | | | |
| STOT-repeated exposure | Causes damage to organs (thymus) through prolonged or repeated exposure. | | |
| 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. | | |
| Xylene (1330-20-7) | | | |
| 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) | | |
| 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/m ³ | | |
| ethylbenzene (100-41-4) | | | |
| NOAEL (oral, rat, 90 days) | 75 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 (hearing sense) 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) | | |
| Aspiration hazard : | Not classified | | |
| SYSTEM 20 HIGH BUILD PRIMER BLACK (4:1) | | | |
| Viscosity, kinematic | 4472.843 mm ² /s | | |
| 11.2. Information on other hazards | | | |

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| Ecology - general Hazardous to the aquatic environment, short-term | | Toxic to aquatic life with long lasting effects. Not classified |
|---|---|--|
| (acute) | | |
| Hazardous to the aquatic environment, long-term (chronic) | : | Toxic to aquatic life with long lasting effects. |

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| acetone (67-64-1) | 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' | | | | |
| 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 | | | | |
| 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' | | | | |
| Xylene (1330-20-7) | | | | | |
| 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] | 2.2 mg/l | | | | |
| ErC50 algae | 4.36 mg/l (OECD 201: Alga, Growth Inhibition Test, 73 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) | | | | |
| 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 | | | | |
| ethylbenzene (100-41-4) | | | | | |
| LC50 - Fish [1] | 5.1 mg/l Test organisms (species): Menidia menidia | | | | |
| EC50 - Crustacea [1] | 1.8 – 2.4 mg/l (US EPA, 48 h, Daphnia magna, Static system, Fresh water, Experimental value) | | | | |
| EC50 72h - Algae [1] | 4.9 mg/l Test organisms (species): Skeletonema costatum | | | | |

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| ethylbenzene (100-41-4) | | | |
|--|---|--|--|
| EC50 72h - Algae [2] | 5.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) | | |
| EC50 96h - Algae [1] | 7.7 mg/l Test organisms (species): Skeletonema costatum | | |
| EC50 96h - Algae [2] | 3.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) | | |
| LOEC (chronic) | 1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' | | |
| NOEC (chronic) | 0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' | | |
| 12.2. Persistence and degradability | | | |
| 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 | | |
| trizinc bis(orthophosphate) (7779-90-0) | | | |
| Persistence and degradability | Biodegradability: not applicable. | | |
| Chemical oxygen demand (COD) | Not applicable | | |
| ThOD | Not applicable | | |
| BOD (% of ThOD) | Not applicable | | |
| 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 | | |
| Xylene (1330-20-7) | | | |
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. | | |
| hydrocarbons, C9, aromatics (64742-95-6) | | | |
| Persistence and degradability | Readily biodegradable in water. | | |
| ethylbenzene (100-41-4) | | | |
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. | | |
| Biochemical oxygen demand (BOD) | 1.44 g O ₂ /g substance | | |
| Chemical oxygen demand (COD) | 2.1 g O ₂ /g substance | | |
| ThOD | 3.17 g O ₂ /g substance | | |
| 12.3. Bioaccumulative potential | | | |
| acetone (67-64-1) | | | |
| | | | |

| acetone (67-64-1) | | |
|---|----------------------|--|
| Partition coefficient n-octanol/water (Log Pow) | -0.23 (Test data) | |
| Bioaccumulative potential | Not bioaccumulative. | |

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| 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 $^{\circ}\text{C}$) | |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). | |
| Xylene (1330-20-7) | | |
| BCF - Fish [1] | 7.2 – 25.9 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Read- across) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.2 (Read-across, 20 °C) | |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). | |
| ethylbenzene (100-41-4) | | |
| BCF - Fish [1] | 1 (6 week(s), Oncorhynchus kisutch, Flow-through system, Salt water, Experimental value) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.6 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C) | |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). | |

12.4. 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. | |
| 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) | 1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, Calculated value) | |
| Ecology - soil | Highly mobile in soil. | |
| Xylene (1330-20-7) | | |
| Surface tension | 28.01 – 29.76 mN/m (25 °C) | |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.73 (log Koc, Equivalent or similar to OECD 121, Read-across) | |
| Ecology - soil | Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation. | |
| ethylbenzene (100-41-4) | | |
| Surface tension | 71.2 mN/m (23 °C, 0.058 g/l, EU Method A.5: Surface tension) | |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.71 (log Koc, PCKOCWIN v1.66, QSAR) | |

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| ethylbenzene (100-41-4) | | | |
|---|---|--|--|
| Ecology - soil Low potential for adsorption in soil. Toxic to soil organisms. | | | |
| 12.5. Results of PBT and vPvB assessment | | | |
| Component | | | |
| 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 | | |
| 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 | | |
| Xylene (1330-20-7) | 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 | | |
| ethylbenzene (100-41-4) | 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 | | |

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

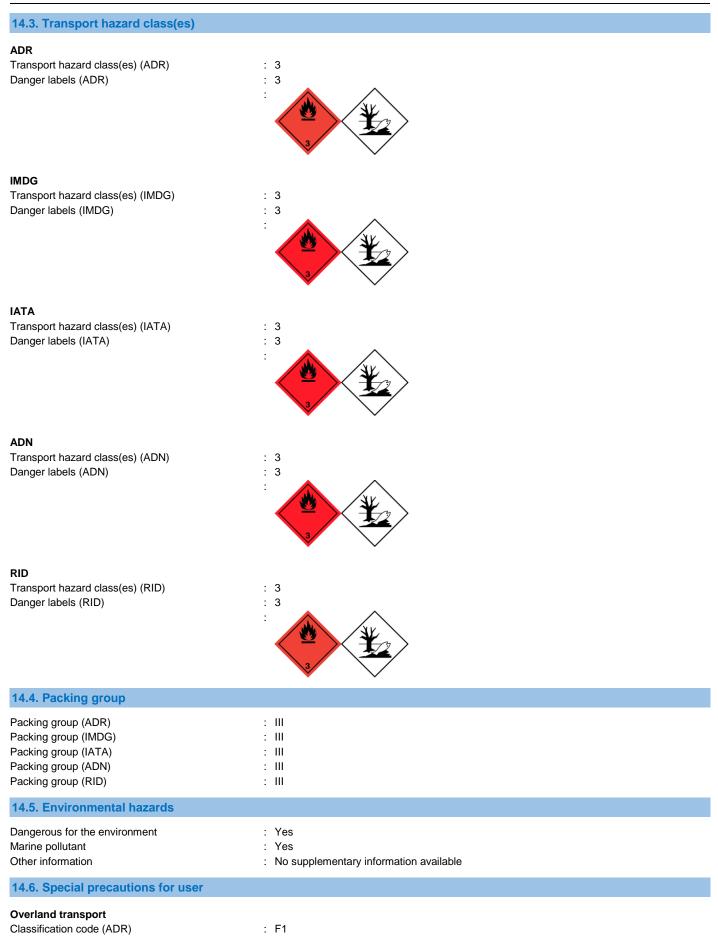
| SECTION 13: Disposal consideration | ons |
|---|---|
| 13.1. Waste treatment methods | |
| Regional legislation (waste) Waste treatment methods Additional information | Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Flammable vapours may accumulate in the container. |

SECTION 14: Transport information

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

| 14.1. UN number or ID number | |
|--|---|
| UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) | : UN 1263 : UN 1263 : UN 1263 : UN 1263 |
| UN-No. (RID) | : UN 1263 |
| 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) | PAINT PAINT Paint PAINT PAINT PAINT VIN 1263 PAINT, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS UN 1263 PAINT, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS |

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| according to the REACT Regulation (EC) 1907/2000 americ | |
|---|--|
| Special provisions (ADR) | : 163, 367, 650 |
| Limited quantities (ADR) | : 51 |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR) | : PP1 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : T2 |
| Portable tank and bulk container special provisions | : TP1, TP29 |
| (ADR) | |
| Tank code (ADR) | : LGBF |
| Vehicle for tank carriage | : FL |
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Packages (ADR) | : V12 |
| Special provisions for carriage - Operation (ADR) | : S2 |
| Hazard identification number (Kemler No.) | : 30 |
| Orange plates | 30 |
| | |
| | 1263 |
| | 1205 |
| Tunnel restriction code (ADR) | : D/E |
| EAC code | : •3YE |
| | |
| Transport by sea | |
| Special provisions (IMDG) | : 163, 223, 367, 955 |
| Limited quantities (IMDG) | : 5L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : P001, LP01 |
| Special packing provisions (IMDG) | : PP1 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T2 |
| Tank special provisions (IMDG) | : TP1, TP29 |
| EmS-No. (Fire) | : F-E |
| EmS-No. (Spillage) | : S-E |
| Stowage category (IMDG) | : A |
| Properties and observations (IMDG) | : Miscibility with water depends upon the composition. |
| Air transport | |
| Air transport PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y344 |
| PCA limited quantity max net quantity (IATA) | : 10L |
| PCA packing instructions (IATA) | : 355 |
| PCA max net quantity (IATA) | : 60L |
| CAO packing instructions (IATA) | : 366 |
| CAO max net quantity (IATA) | : 220L |
| Special provisions (IATA) | : A3, A72, A192 |
| ERG code (IATA) | : 3L |
| () | |
| Inland waterway transport | |
| Classification code (ADN) | : F1 |
| Special provisions (ADN) | : 163, 367, 650 |
| Limited quantities (ADN) | : 5L |
| Excepted quantities (ADN) | : E1 |
| Equipment required (ADN) | : PP, EX, A |
| Ventilation (ADN) | : VE01 |
| Number of blue cones/lights (ADN) | : 0 |
| | |
| Rail transport | |
| Classification code (RID) | : F1 |
| Special provisions (RID) | : 163, 367, 650 |
| Limited quantities (RID) | : 5L |
| Excepted quantities (RID) | : E1 |
| Packing instructions (RID) | : P001, IBC03, LP01, R001 |
| - · · · · | |
| | |

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| Special packing provisions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions (RID) | : | PP1 MP19 T2 TP1, TP29 |
|---|---|--------------------------------|
| Tank codes for RID tanks (RID) Transport category (RID) Special provisions for carriage – Packages (RID) Colis express (express parcels) (RID) Hazard identification number (RID) | : | LGBF 3 W12 CE4 30 |

14.7. Maritime transport in bulk according to IMO instruments

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) | SYSTEM 20 HIGH BUILD PRIMER BLACK (4:1) ; reaction mass of ethylbenzene, m-xylene and p-xylene ; n-butyl acetate ; hydrocarbons, C9, aromatics ; Xylene ; ethylbenzene ; acetone | 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 | |
| 3(b) | SYSTEM 20 HIGH BUILD PRIMER BLACK (4:1) ; reaction mass of ethylbenzene, m-xylene and p-xylene ; n-butyl acetate ; hydrocarbons, C9, aromatics ; Xylene ; ethylbenzene ; acetone | 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) | SYSTEM 20 HIGH BUILD PRIMER BLACK (4:1) ; 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 class 4.1 | |
| 40. | SYSTEM 20 HIGH BUILD PRIMER BLACK (4:1) ; reaction mass of ethylbenzene, m-xylene and p-xylene ; n-butyl acetate ; hydrocarbons, C9, aromatics ; Xylene ; ethylbenzene ; acetone | 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 organic solvents (>= 1%)

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.

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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

: 436.7 g/l

15.1.2. National regulations

VOC content

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes | | | |
|--------------------------------------|---------------|----------|--|
| Section Changed item Change Comments | | | |
| | Supersedes | Modified | |
| | Revision date | Modified | |

| 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 | |
| BLV | Biological limit value | |
| CAS-No. | Chemical Abstract Service number | |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | |
| DMEL | Derived Minimal Effect level | |
| DNEL | Derived-No Effect Level | |
| EC50 | Median effective concentration | |
| EC-No. | European Community number | |
| EN | European Standard | |
| 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 | |

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| Abbreviations and acronyms: | | |
|-----------------------------|---|--|
| NOEC | No-Observed Effect Concentration | |
| OEL | Occupational Exposure Limit | |
| РВТ | Persistent Bioaccumulative Toxic | |
| PNEC | Predicted No-Effect Concentration | |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 | |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail | |
| SDS | Safety Data Sheet | |
| vPvB | Very Persistent and Very Bioaccumulative | |
| WGK | Water Hazard Class | |

| Full text of H- and EU | H-statements: |
|---------------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| 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 |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| 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 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| <u>.</u> | |

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