



DRIVING SURFACE PERFECTION

GRAVITEX PLUS UNDERBODY COATING - BLACK

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
SDS Ref. (EU): GRANB1-SDS
Issue date: 2/24/2015 Revision date: 1/28/2021 Supersedes version of: 8/27/2020 Version: 7.1

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

1.1. Product identifier

Product form : Mixture
Trade name : GRAVITEX PLUS UNDERBODY COATING - BLACK
UFI : 4JA0-K0KA-H00Q-ETXN
Product code : GRA/NB1
Product group : Coating

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

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

U-POL Limited
Denington Road
NN8 2QH Wellingborough - United Kingdom
T +44 (0) 1933 230310
technicalsupport@u-pol.com - www.u-pol.com

Importer

U-POL Netherlands B.V.
Hoogoorddreef 15
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]

Flammable liquids, Category 3 H226
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317

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Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335
Specific target organ toxicity — Repeated exposure, Category 2 H373
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412
Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

: Warning
: Xylene; reaction mass of ethylbenzene, m-xylene and p-xylene; 4-chlorobenzotrifluoride
: H226 - Flammable liquid and vapour.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H373 - May cause damage to organs (hearing organs) through prolonged or repeated exposure (inhalation).
H412 - Harmful to aquatic life with long lasting effects.
: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing vapours, spray, fume.
P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective clothing, protective gloves.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

Precautionary statements (CLP)

2.3. Other hazards

| Component | |
|--|---|
| 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 |
| 2-methylpropan-1-ol; iso-butanol (78-83-1) | 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 |

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] |
|---|---|-----------|--|
| reaction mass of ethylbenzene, m-xylene and p-xylene | (EC-No.) 905-562-9 (REACH-no) 01-2119555267-33 | 10 – 20 | 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 |
| 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 | 10 – 20 | 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 |
| 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 | 5 – 10 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304 |
| kieselguhr, soda ash flux calcined | (CAS-No.) 68855-54-9 (EC-No.) 272-489-0 (REACH-no) 01-2119488518-22 | < 10 | STOT RE 2, H373 |
| 4-chlorobenzotrifluoride | (CAS-No.) 98-56-6 (EC-No.) 202-681-1 (REACH-no) 01-2119857280-40 | 3 – 5 | Flam. Liq. 3, H226 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 |
| 2-methylpropan-1-ol; iso-butanol | (CAS-No.) 78-83-1 (EC-No.) 201-148-0 (EC Index-No.) 603-108-00-1 (REACH-no) 01-2119484609-23 | 0.3 – 2.5 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335 |
| castor oil, sulphated, sodium salt | (CAS-No.) 68187-76-8 (EC-No.) 269-123-7 (REACH-no) 01-2119943732-36 | 0.3 – 2.5 | Eye Irrit. 2, H319 |

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

| | |
|---------------------------------------|--|
| First-aid measures general | : Call a poison center or a doctor if you feel unwell. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all 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. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | : May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking. |
| Symptoms/effects after eye contact | : Eye irritation. |

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

| | |
|--|--------------------------------|
| Fire hazard | : Flammable liquid and vapour. |
| 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Protective equipment | : Safety glasses. Protective clothing. Gloves. |
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe vapours, spray, fume. Avoid contact with skin and eyes. |

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : 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 : 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. Do not breathe spray, vapours, fume. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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 : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
- Storage temperature : < 25 °C
- Storage area : Store in well ventilated area.
- Special rules on packaging : 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

| 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 |

| 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 |
| Notes | Skin Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC COMMISSION DIRECTIVE 2000/39/EC |
| Ireland - Occupational Exposure Limits | |
| Local name | Xylene, mixed isomers |
| OEL TWA [1] | 221 mg/m ³ |

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| Xylene (1330-20-7) | |
|--|--|
| OEL TWA [2] | 50 ppm |
| OEL STEL | 442 mg/m ³ |
| OEL STEL [ppm] | 100 ppm |
| Notes (IE) | 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 Limits | |
| 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 (WEL) | 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 |
| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
| Ireland - Occupational Exposure Limits | |
| Local name | Isobutyl alcohol [2-Methylpropan-1-ol] |
| OEL TWA [1] | 150 mg/m ³ |
| OEL TWA [2] | 50 ppm |
| Regulatory reference | Chemical Agents Code of Practice 2020 |
| United Kingdom - Occupational Exposure Limits | |
| Local name | 2-Methylpropan-1-ol |
| WEL TWA (OEL TWA) [1] | 154 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 50 ppm |
| WEL STEL (OEL STEL) | 231 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 75 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

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| 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/m ³ |
| IOEL STEL [ppm] | 200 ppm |
| Notes | Skin Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC 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/m ³ |
| OEL STEL [ppm] | 200 ppm |
| Notes (IE) | 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/m ³ |
| WEL STEL (OEL STEL) [ppm] | 125 ppm |
| Remark (WEL) | 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

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8.1.4. DNEL and PNEC

| 4-chlorobenzotrifluoride (98-56-6) | |
|---|--------------------------|
| DNEL/DMEL (Workers) | |
| Acute - local effects, dermal | 17.6 µg/cm ² |
| Long-term - systemic effects, dermal | 0.4 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1.025 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - local effects, dermal | 8.8 µg/cm ² |
| Long-term - systemic effects, oral | 0.2 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0.255 mg/m ³ |
| Long-term - systemic effects, dermal | 0.2 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 2 µg/l |
| PNEC aqua (marine water) | 0.2 µg/l |
| PNEC aqua (intermittent, freshwater) | 20 µg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0.0216 mg/kg dwt |
| PNEC sediment (marine water) | 0.00216 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.0258 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 0.032 mg/l |

| reaction mass of ethylbenzene, m-xylene and p-xylene | |
|---|--------------------------|
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, inhalation | 289 mg/m ³ |
| Acute - local effects, inhalation | 289 mg/m ³ |
| Long-term - systemic effects, dermal | 180 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 77 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, inhalation | 174 mg/m ³ |
| Acute - local effects, inhalation | 174 mg/m ³ |
| 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 |
| 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 |

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| PNEC (Soil) | |
|-----------------------------|----------------|
| PNEC soil | 2.31 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 6.58 mg/l |

| Xylene (1330-20-7) | |
|--|--------------------------|
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, inhalation | 289 mg/m ³ |
| Acute - local effects, inhalation | 289 mg/m ³ |
| Long-term - systemic effects, dermal | 180 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 77 mg/m ³ |
| Long-term - local effects, inhalation | 77 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, inhalation | 174 mg/m ³ |
| Acute - local effects, inhalation | 174 mg/m ³ |
| 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/m ³ |
| 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 |

| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
|---|-----------------------|
| DNEL/DMEL (Workers) | |
| Long-term - local effects, inhalation | 310 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - local effects, inhalation | 55 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.4 mg/l |
| PNEC aqua (marine water) | 0.04 mg/l |
| PNEC aqua (intermittent, freshwater) | 11 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 1.52 mg/kg dwt |

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| | |
|------------------------------|------------------|
| PNEC sediment (marine water) | 0.152 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.0699 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 10 mg/l |

| | |
|--|--------------------------|
| Ethylbenzene (100-41-4) | |
| DNEL/DMEL (Workers) | |
| Acute - local effects, inhalation | 293 mg/m ³ |
| Long-term - systemic effects, dermal | 180 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 77 mg/m ³ |
| 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:

Gloves. Protective clothing. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

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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

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Liquid |
| Colour | : Black. |
| Appearance | : Viscous. Liquid. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not applicable |
| Explosive limits | : Not available |
| Lower explosive limit (LEL) | : Not available |
| Upper explosive limit (UEL) | : Not available |
| Flash point | : 26 °C |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : 400 (375 – 425) mm ² /s |
| Viscosity, dynamic | : 4000 (3750 – 4250) 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 | : 1.01 (1 – 1.02) g/cm ³ |
| Relative density | : Not available |
| Relative vapour density at 20 °C | : Not available |

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| | |
|--------------------------------|------------------|
| 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

VOC content : 448 g/l

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 448 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

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 |

castor oil, sulphated, sodium salt (68187-76-8)

| | |
|-----------------|--|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity) |

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| 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)) |

| 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) |

| 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) |

| 4-chlorobenzotrifluoride (98-56-6) | |
|---|---|
| LD50 dermal rabbit | > 3300 mg/kg bodyweight Animal: rabbit |
| LC50 Inhalation - Rat | > 32.03 mg/l air Animal: rat, Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |

| magnesium hydroxide (1309-42-8) | |
|--|--|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method) |
| LC50 Inhalation - Rat | > 2.1 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) |

| isopentane; 2-methylbutane (78-78-4) | |
|---|--|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral)) |
| LC50 Inhalation - Rat | > 25.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (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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| 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) |

| 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) |

| quartz (14808-60-7) | |
|----------------------------|-------------|
| LD50 oral rat | > 500 mg/kg |

| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
|---|--|
| LD50 oral rat | > 2830 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | > 18.18 mg/l air (6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |
| LC50 Inhalation - Rat (Vapours) | 24.6 mg/l/4h (Other, 4 h, Rat, Male/female, Experimental value, Inhalation (vapours)) |

| cyclohexanone oxime (100-64-1) | |
|---------------------------------------|--|
| LD50 oral rat | 883 mg/kg (rat, female) |
| LD50 dermal rabbit | > 5000 mg/kg (OECD Guideline 402 (Acute Dermal Toxicity), rabbit, male/female) |

| 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)) |

| naphtha (petroleum), hydrotreated heavy (64742-48-9) | |
|---|--|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 5000 mg/kg |
| LC50 Inhalation - Rat | > 4951 mg/m ³ |

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| 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 | : Causes skin irritation. |
| 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 |

| 4-chlorobenzotrifluoride (98-56-6) | |
|---|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |

| reaction mass of ethylbenzene, m-xylene and p-xylene | |
|---|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |

| Xylene (1330-20-7) | |
|---------------------------|----------------------|
| IARC group | 3 - Not classifiable |

| Ethylbenzene (100-41-4) | |
|--------------------------------|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |

| | |
|-----------------------|-------------------------------------|
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : May cause respiratory irritation. |

| isopentane; 2-methylbutane (78-78-4) | |
|---|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |

| 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. |

| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
|---|--|
| STOT-single exposure | May cause drowsiness or dizziness. May cause respiratory irritation. |

| naphtha (petroleum), hydrotreated heavy (64742-48-9) | |
|---|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |

| | |
|------------------------|--|
| STOT-repeated exposure | : May cause damage to organs (hearing organs) through prolonged or repeated exposure (inhalation). |
|------------------------|--|

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| castor oil, sulphated, sodium salt (68187-76-8) | |
|--|--|
| NOAEL (oral, rat, 90 days) | 5780 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

| 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). |

| 4-chlorobenzotrifluoride (98-56-6) | |
|---|----------------------------------|
| LOAEL (oral, rat, 90 days) | 150 mg/kg bodyweight Animal: rat |

| magnesium hydroxide (1309-42-8) | |
|--|---|
| 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), Guideline: other:The EPA Health Effects Test Guidelines, OPPTS 870.3650, Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test, July 2000, Guideline: other:Commission Regulation (EC) No 440/2008 Part B:Methods for the Determination of Toxicity and other Health Effects; B.7: "Repeated Dose (28 days) Toxicity (oral)". Official Journal of the European Union No. L142, May 2008, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents), Guideline: other:EPA OPPTS 870.3050(repeated Dose 28-day oral toxicity study in rodents) |

| isopentane; 2-methylbutane (78-78-4) | |
|---|---|
| NOAEC (inhalation, rat, vapour, 90 days) | 30 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: other: U.S. EPA/FIFRA Guidelines §82-4, Guideline: EPA OTS 798.2450 (90-Day Inhalation Toxicity), Guideline: other:U.S. EPA/TSCA Guidelines 40 CFR §798.6059, and §798.6059, 798.6200, 798.6400, Guideline: other:EU Guideline 87/302/EEC |

| 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. |

| 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) |

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| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
|--|--|
| NOAEL (oral, rat, 90 days) | > 1450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

| cyclohexanone oxime (100-64-1) | |
|--------------------------------|---|
| NOAEL (oral, rat, 90 days) | 2.5 mg/kg bodyweight Animal: rat, Animal sex: male, 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. |

| 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. |

Aspiration hazard : Not classified

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|---|------------------------------------|
| Viscosity, kinematic | 400 (375 – 425) mm ² /s |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.
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.

| castor oil, sulphated, sodium salt (68187-76-8) | |
|---|---|
| LC50 - Fish [1] | > 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | ≈ 100 mg/l Test organisms (species): Daphnia magna |
| NOEC (chronic) | > 100 mg/l Test organisms (species): other:Daphnid Duration: '21 d' |
| NOEC chronic fish | > 100 mg/l Test organisms (species): Duration: '28 d' |
| NOEC chronic crustacea | 100 mg/l |
| NOEC chronic algae | 10 mg/l |

| 4-chlorobenzotrifluoride (98-56-6) | |
|------------------------------------|---|
| LC50 - Fish [1] | 3 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 72h - Algae [1] | > 0.41 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

| 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 |

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| | |
|----------------------|--|
| 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' |

| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
|---|--|
| LC50 - Fish [1] | 1430 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Crustacea [1] | 1100 mg/l Test organisms (species): Daphnia pulex |
| ErC50 algae | 1799 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| NOEC (chronic) | 20 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

| 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 |
| 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

| castor oil, sulphated, sodium salt (68187-76-8) | |
|--|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| 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 |

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| 4-chlorobenzotrifluoride (98-56-6) | |
|---|---|
| Persistence and degradability | Biodegradability in water: no data available. |

| Xylene (1330-20-7) | |
|-------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |

| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
|---|--|
| Persistence and degradability | Biodegradable in the soil. 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 | |
|--|---|
| castor oil, sulphated, sodium salt (68187-76-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 1 |

| kieselguhr, soda ash flux calcined (68855-54-9) | |
|--|---|
| Bioaccumulative potential | No test data of component(s) available. |

| 4-chlorobenzotrifluoride (98-56-6) | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 3.6 |
| 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). |

| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| 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). |

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12.4. Mobility in soil

Xylene (1330-20-7)

| | |
|---|---|
| Surface tension | 28.01 – 29.76 mN/m (25 °C) |
| Partition coefficient n-octanol/water (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. |

2-methylpropan-1-ol; iso-butanol (78-83-1)

| | |
|---|--|
| Surface tension | 69.7 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions) |
| Partition coefficient n-octanol/water (Log Koc) | 0.47 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

Ethylbenzene (100-41-4)

| | |
|---|--|
| Surface tension | 71.2 mN/m (23 °C, 0.058 g/l, EU Method A.5: Surface tension) |
| Partition coefficient n-octanol/water (Log Koc) | 2.71 (log Koc, PCKOCWIN v1.66, QSAR) |
| Ecology - soil | Low potential for adsorption in soil. Toxic to soil organisms. |

12.5. Results of PBT and vPvB assessment

Component

| | |
|--|---|
| 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 |
| 2-methylpropan-1-ol; iso-butanol (78-83-1) | 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 |

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

| | |
|------------------------------|---|
| Regional legislation (waste) | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Additional information | : 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 1263 |
| UN-No. (IMDG) | : UN 1263 |

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UN-No. (IATA) : UN 1263
UN-No. (ADN) : UN 1263
UN-No. (RID) : UN 1263

14.2. UN proper shipping name

Proper Shipping Name (ADR) : PAINT
Proper Shipping Name (IMDG) : PAINT
Proper Shipping Name (IATA) : Paint
Proper Shipping Name (ADN) : PAINT
Proper Shipping Name (RID) : PAINT
Transport document description (ADR) : UN 1263 PAINT, 3, III, (D/E)
Transport document description (IMDG) : UN 1263 PAINT, 3, III
Transport document description (IATA) : UN 1263 Paint, 3, III
Transport document description (ADN) : UN 1263 PAINT, 3, III
Transport document description (RID) : UN 1263 PAINT, 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Danger labels (IATA) : 3



ADN

Transport hazard class(es) (ADN) : 3
Danger labels (ADN) : 3



RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3



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14.4. Packing group

| | |
|----------------------|-------|
| Packing group (ADR) | : III |
| Packing group (IMDG) | : III |
| Packing group (IATA) | : III |
| Packing group (ADN) | : III |
| Packing group (RID) | : III |

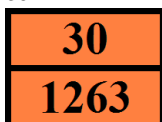
14.5. Environmental hazards

| | |
|-------------------------------|--|
| 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) | : F1 |
| Special provisions (ADR) | : 163, 367, 650 |
| Limited quantities (ADR) | : 5I |
| 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 (ADR) | : TP1, TP29 |
| 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 | : |



| | |
|-------------------------------|--------|
| Tunnel restriction code (ADR) | : D/E |
| EAC code | : •3YE |

Transport by sea

| | |
|------------------------------------|--|
| Special provisions (IMDG) | : 163, 223, 367, 955 |
| Limited quantities (IMDG) | : 5 L |
| 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

| | |
|--|-----------------|
| 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 |

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Inland waterway transport

| | |
|-----------------------------------|-----------------|
| Classification code (ADN) | : F1 |
| Special provisions (ADN) | : 163, 367, 650 |
| Limited quantities (ADN) | : 5 L |
| 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 |
| Special packing provisions (RID) | : PP1 |
| Mixed packing provisions (RID) | : MP19 |
| Portable tank and bulk container instructions (RID) | : T2 |
| Portable tank and bulk container special provisions (RID) | : TP1, TP29 |
| Tank codes for RID tanks (RID) | : LGBF |
| Transport category (RID) | : 3 |
| Special provisions for carriage – Packages (RID) | : W12 |
| Colis express (express parcels) (RID) | : CE4 |
| Hazard identification number (RID) | : 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

| The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006: | | |
|--|---|--|
| Reference code | Applicable on | Entry title or description |
| 3(a) | GRAVITEX PLUS UNDERBODY COATING - BLACK ; Xylene ; Ethylbenzene ; reaction mass of ethylbenzene, m-xylene and p-xylene ; 4-chlorobenzotrifluoride ; isobutanol | 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) | GRAVITEX PLUS UNDERBODY COATING - BLACK ; Xylene ; Ethylbenzene ; castor oil, sulphated, sodium salt ; reaction mass of ethylbenzene, m-xylene and p-xylene ; 4-chlorobenzotrifluoride ; isobutanol | 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) | GRAVITEX PLUS UNDERBODY COATING - BLACK ; 4-chlorobenzotrifluoride | 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. | GRAVITEX PLUS UNDERBODY COATING - BLACK ; Xylene ; Ethylbenzene ; reaction mass of ethylbenzene, m-xylene and p-xylene ; 4-chlorobenzotrifluoride ; isobutanol | 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 ($\geq 1\%$)

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.

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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

VOC content : 448 g/l

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| 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 |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OEL | Occupational Exposure Limit |
| PBT | 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 EUH-statements:

| | |
|-----------------------|-------------------------------------|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
|-----------------------|-------------------------------------|

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| | |
|---------------------------|--|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| 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 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| 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 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| 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. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| 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. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

For professional use only.

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