



DRIVING SURFACE PERFECTION

GRIP #4 1K UNIVERSAL ADHESION PROMOTER AEROSOL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Product Reference code: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
SDS Ref. (EU): GRIPAL-SDS
Issue date: 01/04/2015 Revision date: 13/08/2020 Supersedes version of: 20/08/2019 Version: 4.0

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

1.1. Product identifier

Product form : Mixture
Trade name : GRIP #4 1K UNIVERSAL ADHESION PROMOTER AEROSOL
UFI : WNA0-308Q-U007-35HQ
Product code : GRIP/AL
Vaporizer : Aerosol
Product group : Aerosol

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

1.2.1. Relevant identified uses

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

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

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]

Aerosol, Category 1 H222;H229
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319

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Reproductive toxicity, Category 2 H361
Specific target organ toxicity — Single exposure, Category 3, Narcosis H336
Specific target organ toxicity — Repeated exposure, Category 2 H373
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: toluene

Hazard statements (CLP)

: H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H361 - Suspected of damaging the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P261 - Avoid breathing vapours, spray, fume.
P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective clothing, protective gloves.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122 °F.

2.3. Other hazards

| Component | |
|---------------------------|---|
| toluene (108-88-3) | 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 |
| dimethyl ether (115-10-6) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 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 |

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|--|
| toluene substance with a Community workplace exposure limit | (CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51 | 25 – 50 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 |
| dimethyl ether substance with a Community workplace exposure limit (Note U) | (CAS-No.) 115-10-6 (EC-No.) 204-065-8 (EC Index-No.) 603-019-00-8 (REACH-no) 01-2119472128-37 | 25 – 50 | Flam. Gas 1A, H220 Press. Gas (Liq.), H280 |
| acetone substance with a Community workplace exposure limit | (CAS-No.) 67-64-1 (EC-No.) 200-662-2 (EC Index-No.) 606-001-00-8 (REACH-no) 01-2119471330-49 | 5 – 10 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| 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 | 1 – 3 | 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 |

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.

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

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : IF exposed or concerned: Get medical advice/attention. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |

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

| | |
|-------------------------------------|---|
| Symptoms/effects | : May cause drowsiness or dizziness. |
| Symptoms/effects after skin contact | : Irritation. Repeated exposure may cause skin dryness or cracking. |
| Symptoms/effects after eye contact | : Eye irritation. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.
Explosion hazard : Pressurised container: May burst if heated.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

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

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, pump into suitable containers. Collect spillage.
Methods for cleaning up : Mechanically recover the product. 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.

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. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe vapours, spray, fume. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

| | |
|----------------------------|--|
| Storage conditions | : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. |
| Storage temperature | : < 25 °C |
| 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

| toluene (108-88-3) | |
|---|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Toluene |
| IOEL TWA | 192 mg/m ³ |
| IOEL TWA [ppm] | 50 ppm |
| IOEL STEL | 384 mg/m ³ |
| IOEL STEL [ppm] | 100 ppm |
| Notes | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2006/15/EC |
| Ireland - Occupational Exposure Limits | |
| Local name | Toluene |
| OEL TWA [1] | 192 mg/m ³ |
| OEL TWA [2] | 50 ppm |
| OEL STEL | 384 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 | Toluene |
| BLV | 0.02 mg/l Parameter: toluene - Medium: blood - Sampling time: Prior to last shift of workweek 0.03 mg/l Parameter: toluene - Medium: urine - Sampling time: End of shift 0.3 mg/g creatinine Parameter: o-cresol - Medium: urine - Sampling time: End of shift - Notations: B (Background) |
| Regulatory reference | Biological Monitoring Guidelines (HSA, 2011) |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Toluene |
| WEL TWA (OEL TWA) [1] | 191 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 50 ppm |
| WEL STEL (OEL STEL) | 384 mg/m ³ |

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| toluene (108-88-3) | |
|---------------------------|---|
| 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 |

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

| 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 |
| Notes (IE) | 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) |

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| acetone (67-64-1) | |
|--|--|
| 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 |
| WEL STEL (OEL STEL) [ppm] | 1500 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 |
| Notes | 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 |
| 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) |

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| Xylene (1330-20-7) | |
|---|---|
| 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 |

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

| toluene (108-88-3) | |
|--|---------------------------|
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, inhalation | 384 mg/m ³ |
| Acute - local effects, inhalation | 384 mg/m ³ |
| Long-term - systemic effects, dermal | 384 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 192 mg/m ³ |
| Long-term - local effects, inhalation | 192 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, inhalation | 226 mg/m ³ |
| Acute - local effects, inhalation | 226 mg/m ³ |
| Long-term - systemic effects, oral | 8.13 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 56.5 mg/m ³ |
| Long-term - systemic effects, dermal | 226 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 56.5 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.68 mg/l |
| PNEC aqua (marine water) | 0.68 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.68 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 16.39 mg/kg dwt |
| PNEC sediment (marine water) | 16.39 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 2.89 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 13.61 mg/l |

| dimethyl ether (115-10-6) | |
|--|------------------------|
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, inhalation | 1894 mg/m ³ |

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| DNEL/DMEL (General population) | |
|--|-----------------------|
| Long-term - systemic effects, inhalation | 471 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.155 mg/l |
| PNEC aqua (marine water) | 0.016 mg/l |
| PNEC aqua (intermittent, freshwater) | 1.549 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0.681 mg/kg dwt |
| PNEC sediment (marine water) | 0.069 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.045 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 160 mg/l |

| acetone (67-64-1) | |
|--|--------------------------|
| DNEL/DMEL (Workers) | |
| Acute - local effects, inhalation | 2420 mg/m ³ |
| Long-term - systemic effects, dermal | 186 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1210 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 62 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 200 mg/m ³ |
| Long-term - systemic effects, dermal | 62 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 10.6 mg/l |
| PNEC aqua (marine water) | 1.06 mg/l |
| PNEC aqua (intermittent, freshwater) | 21 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 30.4 mg/kg dwt |
| PNEC sediment (marine water) | 3.04 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 29.5 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 100 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 |

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| 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 |

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

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

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Other skin protection

Materials for protective clothing:

Impermeable clothing

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

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 | : Colourless. |
| Appearance | : Aerosol. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Extremely flammable aerosol. |
| Explosive limits | : Not available |
| Lower explosive limit (LEL) | : Not available |
| Upper explosive limit (UEL) | : Not available |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : Not available |
| 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 | : 0.772 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

VOC content : 762 g/l

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 99.32045049999996

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9.2.2. Other safety characteristics

VOC content : 762 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

| toluene (108-88-3) | |
|---------------------------------|--|
| LD50 oral rat | 5580 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EU Method B.1 (Acute Toxicity (Oral)), 95% CL: 5300 - 5910 |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, 95% CL: 9,63 - 20,77 |
| LC50 Inhalation - Rat | 25.7 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value, Inhalation (vapours)) |
| LC50 Inhalation - Rat (Vapours) | 25.7 mg/l/4h (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value, Inhalation (vapours)) |

| dimethyl ether (115-10-6) | |
|-----------------------------|--|
| LC50 Inhalation - Rat | 309 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (gases)) |
| LC50 Inhalation - Rat [ppm] | 164000 ppm Animal: rat, Animal sex: male, 95% CL: 142000 - 203000 |

| propan-2-ol (67-63-0) | |
|-----------------------------|---|
| LD50 oral rat | 5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | 16400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat [ppm] | > 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |

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| titanium(4+) ion dihydrogen tetrakis(2,2-bis[(prop-2-en-1-yloxy)methyl]butan-1-olate) diditridecyl phosphite (64157-14-8) | |
|--|-------------------------|
| LD50 oral rat | 10300 mg/kg (Rat, Oral) |

| chlorobenzene (108-90-7) | |
|---------------------------------|--|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |

| acetone (67-64-1) | |
|--------------------------|---|
| LD50 oral rat | 5800 mg/kg bodyweight Animal: rat, Animal sex: female |
| LD50 dermal rabbit | 20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal) |
| LC50 Inhalation - Rat | 76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4 |

| 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)) |

| 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) |

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

| toluene (108-88-3) | |
|---------------------------|----------------------|
| IARC group | 3 - Not classifiable |

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

Reproductive toxicity : Suspected of damaging the unborn child.

| 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) |

STOT-single exposure : May cause drowsiness or dizziness.

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| toluene (108-88-3) | |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |

| propan-2-ol (67-63-0) | |
|-----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |

| acetone (67-64-1) | |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |

| Xylene (1330-20-7) | |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

| toluene (108-88-3) | |
|--|--|
| LOAEL (oral, rat, 90 days) | 1250 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral, rat, 90 days) | 625 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEC (inhalation, rat, vapour, 90 days) | 2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study) |
| 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. |

| 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. |

Aspiration hazard : Not classified

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|--|---------|
| Vaporizer | Aerosol |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

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Hazardous to the aquatic environment, long-term (chronic) : Not classified

| toluene (108-88-3) | |
|---------------------------|---|
| LC50 - Fish [1] | 5.5 mg/l Test organisms (species): Oncorhynchus kisutch |
| LOEC (chronic) | 2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' |
| NOEC (chronic) | 0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' |
| NOEC chronic fish | 1.39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d' |

| dimethyl ether (115-10-6) | |
|----------------------------------|--|
| LC50 - Fish [1] | > 4.1 g/l Test organisms (species): Poecilia reticulata |
| EC50 - Crustacea [1] | > 4.4 g/l Test organisms (species): Daphnia magna |
| EC50 96h - Algae [1] | 154.917 mg/l Test organisms (species): other:green algae |

| acetone (67-64-1) | |
|--------------------------|---|
| LC50 - Fish [1] | 5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 96h - Algae [1] | > 7000 mg/l (Selenastrum capricornutum, Static system, Fresh water, Experimental value, Nominal 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' |

| 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' |

12.2. Persistence and degradability

| toluene (108-88-3) | |
|---------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 2.15 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.52 g O ₂ /g substance |
| ThOD | 3.13 g O ₂ /g substance |
| BOD (% of ThOD) | 0.69 |

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

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| 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 |
| BOD (% of ThOD) | 0.872 (20 day(s), Literature study) |

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

12.3. Bioaccumulative potential

| toluene (108-88-3) | |
|---|---|
| BCF - Fish [1] | 90 (72 h, Leuciscus idus, Static system, Fresh water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow) | 2.73 (Experimental value, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| dimethyl ether (115-10-6) | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 0.1 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| acetone (67-64-1) | |
|---|------------------------------|
| BCF - Fish [1] | 0.69 (Pisces) |
| BCF - Other aquatic organisms [1] | 3 (BCFWIN, Calculated value) |
| Partition coefficient n-octanol/water (Log Pow) | -0.24 (Test data) |
| Bioaccumulative potential | Not bioaccumulative. |

| 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). |

12.4. Mobility in soil

| toluene (108-88-3) | |
|---------------------------|---------------------------------------|
| Surface tension | 27.73 N/m (25 °C) |
| Ecology - soil | Low potential for adsorption in soil. |

| dimethyl ether (115-10-6) | |
|----------------------------------|-----------------------|
| Surface tension | 0.02 N/m (-40 °C) |
| Ecology - soil | Not applicable (gas). |

| acetone (67-64-1) | |
|--------------------------|------------|
| Surface tension | 0.0237 N/m |

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| | |
|----------------|--|
| Ecology - soil | No (test) data on mobility of the substance available. |
|----------------|--|

| 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. |

12.5. Results of PBT and vPvB assessment

| Component | |
|---------------------------|---|
| toluene (108-88-3) | 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 |
| dimethyl ether (115-10-6) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 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 |

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.

SECTION 14: Transport information

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

14.1. UN number or ID number

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

14.2. UN proper shipping name

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

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Transport document description (IATA) : UN 1950 Aerosols, flammable, 2.1
Transport document description (ADN) : UN 1950 AEROSOLS, 2.1
Transport document description (RID) : UN 1950 AEROSOLS, 2.1

14.3. Transport hazard class(es)

ADR

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



IMDG

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



IATA

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



ADN

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



RID

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



14.4. Packing group

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

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

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14.6. Special precautions for user

Overland transport

| | |
|---|----------------------|
| Classification code (ADR) | : 5F |
| Special provisions (ADR) | : 190, 327, 344, 625 |
| Limited quantities (ADR) | : 1I |
| Excepted quantities (ADR) | : E0 |
| Packing instructions (ADR) | : P207 |
| Special packing provisions (ADR) | : PP87, RR6, L2 |
| Mixed packing provisions (ADR) | : MP9 |
| Transport category (ADR) | : 2 |
| Special provisions for carriage - Packages (ADR) | : V14 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV9, CV12 |
| Special provisions for carriage - Operation (ADR) | : S2 |
| Tunnel restriction code (ADR) | : D |

Transport by sea

| | |
|-----------------------------------|------------------------------------|
| Special provisions (IMDG) | : 63, 190, 277, 327, 344, 381, 959 |
| Packing instructions (IMDG) | : P207, LP200 |
| Special packing provisions (IMDG) | : PP87, L2 |
| EmS-No. (Fire) | : F-D |
| EmS-No. (Spillage) | : S-U |
| Stowage category (IMDG) | : None |
| Stowage and handling (IMDG) | : SW1, SW22 |
| Segregation (IMDG) | : SG69 |

Air transport

| | |
|--|--------------------|
| PCA Excepted quantities (IATA) | : E0 |
| PCA Limited quantities (IATA) | : Y203 |
| PCA limited quantity max net quantity (IATA) | : 30kgG |
| PCA packing instructions (IATA) | : 203 |
| PCA max net quantity (IATA) | : 75kg |
| CAO packing instructions (IATA) | : 203 |
| CAO max net quantity (IATA) | : 150kg |
| Special provisions (IATA) | : A145, A167, A802 |
| ERG code (IATA) | : 10L |

Inland waterway transport

| | |
|-----------------------------------|----------------------|
| Classification code (ADN) | : 5F |
| Special provisions (ADN) | : 190, 327, 344, 625 |
| Limited quantities (ADN) | : 1 L |
| Excepted quantities (ADN) | : E0 |
| Equipment required (ADN) | : PP, EX, A |
| Ventilation (ADN) | : VE01, VE04 |
| Number of blue cones/lights (ADN) | : 1 |

Rail transport

| | |
|---|----------------------|
| Classification code (RID) | : 5F |
| Special provisions (RID) | : 190, 327, 344, 625 |
| Limited quantities (RID) | : 1L |
| Excepted quantities (RID) | : E0 |
| Packing instructions (RID) | : P207, LP200 |
| Special packing provisions (RID) | : PP87, RR6, L2 |
| Mixed packing provisions (RID) | : MP9 |
| Transport category (RID) | : 2 |
| Special provisions for carriage – Packages (RID) | : W14 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW9, CW12 |
| Colis express (express parcels) (RID) | : CE2 |
| Hazard identification number (RID) | : 23 |

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 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) | GRIP #4 1K UNIVERSAL ADHESION PROMOTER AEROSOL ; Xylene ; toluene ; 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) | GRIP #4 1K UNIVERSAL ADHESION PROMOTER AEROSOL ; Xylene ; toluene ; 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 |
| 40. | dimethyl ether ; Xylene ; toluene ; 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. |
| 48. | toluene | Toluene |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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

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

VOC content : 762 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 |

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| | |
|-------|---|
| 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 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Aerosol 1 | Aerosol, Category 1 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Gas 1A | Flammable gases, Category 1A |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Press. Gas (Liq.) | Gases under pressure : Liquefied gas |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| 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, Narcosis |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |

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| | |
|-------|--|
| 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. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

For professional use only.

The information contained within this Safety Data Sheet (SDS) is believed to be correct as of the date issued however it is subject to change from time to time. It does not purport to be all inclusive or exhaustive and shall only be used as a guide. U-POL makes no warranties, expressed or implied, including but not limited to, any implied warranty of fitness for a given purpose or usage. It is the Buyers responsibility to ensure the suitability of the products for their own use and to check the information is up to date. U-POL cannot be held responsible for the suitability of use for any of its products, considering the wide range of factors such as application, substrates and handling methods. Since these conditions of use are outside of our control, the company shall not be held liable for any damage resulting from handling or from contact with the product detailed. Moreover, addition of reducers, hardeners or other additives over and above U-POL's recommendations for use, may substantially alter the composition and hazards of the product. U-POL data sheets are available via the U-POL website at WWW.U-POL.COM.