

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Product name : 0458960-61-62 SEAL PROOF SPRAY
UFI : DD2D-44MC-YY04-5N32
Product code : 0458960, 0458961, 0458962

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Professional use
Use of the substance/mixture : Paint

1.2.2. Uses advised against

Restrictions on use : Anyone use not specified in this section or in section 7.3

1.3. Details of the supplier of the safety data sheet**Supplier**

BLINKER ESPAÑA, S.A.U.
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2695-167 Bobadela
Portugal
T 21 9112530 - F 21 9112539
blinker@blinker.pt - www.blinkergroup.com

1.4. Emergency telephone number

Emergency number : ESPAÑA: 954 37 12 33 (INTCF) // PORTUGAL: 800 250 250 (CIAV) // FRANCE: 05 61 77 74 47

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 |
| Specific target organ toxicity – Single exposure, Category 3, | H336 |
| Narcosis | |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3 | H412 |

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

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

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2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) :

Danger

Contains :

Butanone; ethyl methyl ketone; Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes; Ethyl acetate; Butan-2-ol

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

Precautionary statements (CLP) :

P102 - Keep out of reach of children.
P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Pressurized container: Do not pierce or burn, even after use.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

2.3. Other hazards

Other hazards which do not result in classification : The product does not meet the PBT/vPvB criteria. The product does not meet the criteria for its endocrine disrupting properties.

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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] |
|-------------------------------|--|---------|---|
| Dimethylether | CAS-No.: 115-10-6 EC-No.: 204-065-8 EC Index-No.: 603-019-00-8 REACH-no: 01-2119472128-37 | 30 – 50 | Flam. Gas 1A, H220 Press. Gas (Liq.), H280 |
| Butanone; ethyl methyl ketone | CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3 REACH-no: 01-2119457290-43 | 10 – 20 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|------------|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes | CAS-No.: 64742-49-0 EC-No.: 927-510-4 REACH-no: 01-2119475515-33 | 10 – 20 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Xylene | CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216-32 | 5 – 10 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 |
| Ethyl acetate | CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-46 | 2,5 – 5 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| Butan-2-ol | CAS-No.: 78-92-2 EC-No.: 201-158-5 EC Index-No.: 603-004-01-3 REACH-no: 01-2119475146-36 | 1 – 2,5 | Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335 STOT SE 3, H336 |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane | EC-No.: 921-024-6 REACH-no: 01-2119475514-35 | 1 – 2,5 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, Cyclics | EC-No.: 920-750-0 REACH-no: 01-2119473851-33 | 1 – 2,5 | Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| 2,6-dimethylheptan-4-one | CAS-No.: 108-83-8 EC-No.: 203-620-1 EC Index-No.: 606-005-00-X REACH-no: 01-2119474441-41 | 0,25 – 1 | Flam. Liq. 3, H226 STOT SE 3, H335 |
| 2-methylpropan-1-ol | CAS-No.: 78-83-1 EC-No.: 201-148-0 EC Index-No.: 603-108-00-1 REACH-no: 01-2119484609-23 | 0,25 – 1 | Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H335 STOT SE 3, H336 |
| Cyclohexane | CAS-No.: 110-82-7 EC-No.: 203-806-2 EC Index-No.: 601-017-00-1 REACH-no: 01-2119463273-41 | 0,2 – 0,25 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Solvent naphtha (petroleum), light aromatic | CAS-No.: 64742-95-6 EC-No.: 265-199-0 EC Index-No.: 649-356-00-4 REACH-no: 01-2119486773-24 | 0,05 – 0,1 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : 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. |
| 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. |
| 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. |
|------------------------------|----------------------------------|

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

| | |
|----------------------|---|
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. 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

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

6.4. Reference to other sections

For further information refer to section 13.

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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. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Butanone; ethyl methyl ketone (78-93-3) | |
|---|---|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Butanone |
| IOEL TWA | 600 mg/m ³ |
| IOEL TWA [ppm] | 200 ppm |
| IOEL STEL | 900 mg/m ³ |
| IOEL STEL [ppm] | 300 ppm |
| Portugal - Occupational Exposure Limits | |
| Local name | Metiletilcetona (MEK) (2-Butanona) |
| OEL TWA [ppm] | 200 ppm |
| OEL STEL [ppm] | 300 ppm |
| Spain - Occupational Exposure Limits | |
| Local name | Metiletilcetona (Butanona) |
| VLA-ED (OEL TWA) [1] | 600 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 200 ppm |
| VLA-EC (OEL STEL) | 900 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 300 ppm |
| Remark | VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento.), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.) |

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| Butanone; ethyl methyl ketone (78-93-3) | |
|---|---|
| United Kingdom - Occupational Exposure Limits | |
| Local name | Butan-2-one (methyl ethyl ketone) |
| WEL TWA (OEL TWA) [1] | 600 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 200 ppm |
| WEL STEL (OEL STEL) | 899 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 300 ppm |
| Remark | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), BMGV (Biological monitoring guidance values are listed in Table 2) |
| Xylene (1330-20-7) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Xylene, mixed isomers, pure |
| IOEL TWA | 221 mg/m ³ |
| IOEL TWA [ppm] | 50 ppm |
| IOEL STEL | 442 mg/m ³ |
| IOEL STEL [ppm] | 100 ppm |
| Remark | Skin |
| Portugal - Occupational Exposure Limits | |
| Local name | Xileno (isómeros) |
| OEL TWA [ppm] | 100 ppm |
| OEL STEL [ppm] | 150 ppm |
| Spain - Occupational Exposure Limits | |
| Local name | Xilenos, mezcla isómeros |
| VLA-ED (OEL TWA) [1] | 221 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 50 ppm |
| VLA-EC (OEL STEL) | 442 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 100 ppm |
| Remark | Vía dérmica: (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento.), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.) |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Xylene, o-,m-,p- or mixed isomers |
| WEL TWA (OEL TWA) [1] | 220 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 50 ppm |

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| Xylene (1330-20-7) | |
|---------------------------|---|
| WEL STEL (OEL STEL) | 441 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 100 ppm |
| Remark | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), BMGV (Biological monitoring guidance values are listed in Table 2) |

| Ethyl acetate (141-78-6) | |
|--|------------------------|
| Portugal - Occupational Exposure Limits | |
| Local name | Acetato de etilo |
| OEL TWA [ppm] | 400 ppm |
| Spain - Occupational Exposure Limits | |
| Local name | Acetato de etilo |
| VLA-ED (OEL TWA) [1] | 1460 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 400 ppm |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Ethyl acetate |
| WEL TWA (OEL TWA) [2] | 200 ppm |
| WEL STEL (OEL STEL) [ppm] | 400 ppm |

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

| Butanone; ethyl methyl ketone (78-93-3) | |
|--|-----------------------|
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 1161 mg/kg KW |
| Long-term - systemic effects, inhalation | 600 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 31 mg/kg KW |
| Long-term - systemic effects, inhalation | 106 mg/m ³ |
| Long-term - systemic effects, dermal | 412 mg/kg KW |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 55,8 mg/l |
| PNEC aqua (marine water) | 55,8 mg/l |
| PNEC aqua (intermittent, freshwater) | 55,8 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 284,74 mg/kg KW |
| PNEC sediment (marine water) | 284,7 mg/kg KW |
| PNEC (Soil) | |
| PNEC soil | 22,5 mg/kg KW |

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| Butanone; ethyl methyl ketone (78-93-3) | |
|--|------------------------|
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 1000 mg/kg |
| PNEC (STP) | |
| PNEC sewage treatment plant | 709 mg/l |
| Xylene (1330-20-7) | |
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, inhalation | 442 mg/m ³ |
| Acute - local effects, inhalation | 442 mg/m ³ |
| Long-term - systemic effects, dermal | 212 mg/kg KW |
| Long-term - systemic effects, inhalation | 221 mg/m ³ |
| Long-term - local effects, inhalation | 221 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, inhalation | 260 mg/m ³ |
| Acute - local effects, inhalation | 260 mg/m ³ |
| Long-term - systemic effects, oral | 12,5 mg/kg KW |
| Long-term - systemic effects, inhalation | 65,3 mg/m ³ |
| Long-term - systemic effects, dermal | 125 mg/kg KW |
| 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 KW |
| PNEC sediment (marine water) | 12,46 mg/kg KW |
| PNEC (Soil) | |
| PNEC soil | 2,31 mg/kg KW |
| PNEC (STP) | |
| PNEC sewage treatment plant | 6,58 mg/kg KW |
| Dimethylether (115-10-6) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, inhalation | 1894 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, inhalation | 471 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0,155 mg/l |
| PNEC aqua (marine water) | 0,016 mg/l |
| PNEC aqua (intermittent, freshwater) | 1,549 mg/l |

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| Dimethylether (115-10-6) | |
|---|------------------------|
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0,681 mg/kg KW |
| PNEC sediment (marine water) | 0,069 mg/kg KW |
| PNEC (Soil) | |
| PNEC soil | 0,045 mg/kg KW |
| PNEC (STP) | |
| PNEC sewage treatment plant | 1,549 mg/l |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes (64742-49-0) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 300 mg/kg KW |
| Long-term - systemic effects, inhalation | 2085 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 149 mg/kg KW |
| Long-term - systemic effects, inhalation | 447 mg/m ³ |
| Long-term - systemic effects, dermal | 149 mg/kg KW |
| Ethyl acetate (141-78-6) | |
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, inhalation | 1428 mg/m ³ |
| Acute - local effects, inhalation | 1468 mg/m ³ |
| Long-term - systemic effects, dermal | 63 mg/kg KW |
| Long-term - systemic effects, inhalation | 734 mg/m ³ |
| Long-term - local effects, inhalation | 734 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, inhalation | 734 mg/m ³ |
| Acute - local effects, inhalation | 734 mg/m ³ |
| Long-term - systemic effects, oral | 4,5 mg/kg KW |
| Long-term - systemic effects, inhalation | 367 mg/m ³ |
| Long-term - systemic effects, dermal | 37 mg/kg KW |
| Long-term - local effects, inhalation | 367 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0,24 mg/l |
| PNEC aqua (marine water) | 0,024 mg/l |
| PNEC aqua (intermittent, freshwater) | 1,65 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 1,15 mg/kg KW |
| PNEC sediment (marine water) | 0,115 mg/kg KW |
| PNEC (Soil) | |
| PNEC soil | 0,148 mg/kg KW |

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| Ethyl acetate (141-78-6) | |
|---|---------------------------|
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 200 mg/kg |
| PNEC (STP) | |
| PNEC sewage treatment plant | 650 mg/l |
| Solvent naphtha (petroleum), light aromatic (64742-95-6) | |
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, inhalation | 1286,4 mg/m ³ |
| Acute - local effects, inhalation | 1066,67 mg/m ³ |
| Long-term - local effects, inhalation | 837,5 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, inhalation | 1152 mg/m ³ |
| Acute - local effects, inhalation | 640 mg/m ³ |
| Long-term - local effects, inhalation | 178,57 mg/m ³ |
| 2,6-dimethylheptan-4-one (108-83-8) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 7,7 mg/kg KW |
| Long-term - systemic effects, inhalation | 53 mg/m ³ |
| Long-term - local effects, inhalation | 53 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0,03 mg/l |
| PNEC aqua (marine water) | 0,003 mg/l |
| PNEC aqua (intermittent, freshwater) | 0,3 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0,46 mg/kg KW |
| PNEC sediment (marine water) | 0,046 mg/kg KW |
| PNEC (Soil) | |
| PNEC soil | 0,075 mg/kg KW |
| PNEC (STP) | |
| PNEC sewage treatment plant | 2,55 mg/l |
| Butan-2-ol (78-92-2) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 405 mg/kg KW |
| Long-term - systemic effects, inhalation | 212 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 15 mg/kg KW |
| Long-term - systemic effects, inhalation | 213 mg/m ³ |
| Long-term - systemic effects, dermal | 203 mg/kg KW |

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| Butan-2-ol (78-92-2) | |
|--|------------------------|
| PNEC (Water) | |
| PNEC aqua (freshwater) | 47,1 mg/l |
| PNEC aqua (marine water) | 47,1 mg/l |
| PNEC aqua (intermittent, freshwater) | 47,1 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 196,19 mg/kg KW |
| PNEC sediment (marine water) | 196,19 mg/kg KW |
| PNEC (Soil) | |
| PNEC soil | 11,58 mg/kg KW |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 1000 mg/kg |
| PNEC (STP) | |
| PNEC sewage treatment plant | 761 mg/l |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 773 mg/kg bw/day |
| Long-term - systemic effects, inhalation | 2035 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 699 mg/kg bw/day |
| Long-term - systemic effects, inhalation | 608 mg/m ³ |
| Long-term - systemic effects, dermal | 699 mg/kg bw/day |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, Cyclics | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 773 mg/kg KW |
| Long-term - systemic effects, inhalation | 2035 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 699 mg/kg KW |
| Long-term - systemic effects, inhalation | 608 mg/m ³ |
| Long-term - systemic effects, dermal | 699 mg/kg KW |
| 2-methylpropan-1-ol (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 |

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| 2-methylpropan-1-ol (78-83-1) | |
|--|------------------------|
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 1,56 mg/kg KW |
| PNEC sediment (marine water) | 0,156 mg/kg KW |
| PNEC (Soil) | |
| PNEC soil | 0,076 mg/kg KW |
| PNEC (STP) | |
| PNEC sewage treatment plant | 10 mg/l |
| Cyclohexane (110-82-7) | |
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, inhalation | 1400 mg/m ³ |
| Acute - local effects, inhalation | 1400 mg/m ³ |
| Long-term - systemic effects, dermal | 2016 mg/kg KW |
| Long-term - systemic effects, inhalation | 700 mg/m ³ |
| Long-term - local effects, inhalation | 700 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, inhalation | 412 mg/m ³ |
| Acute - local effects, inhalation | 412 mg/m ³ |
| Long-term - systemic effects, oral | 59,4 mg/kg KW |
| Long-term - systemic effects, inhalation | 206 mg/m ³ |
| Long-term - systemic effects, dermal | 1186 mg/kg KW |
| Long-term - local effects, inhalation | 206 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0,207 mg/l |
| PNEC aqua (marine water) | 0,207 mg/l |
| PNEC aqua (intermittent, freshwater) | 0,207 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 16,68 mg/kg KW |
| PNEC sediment (marine water) | 16,68 mg/kg KW |
| PNEC (Soil) | |
| PNEC soil | 3,38 mg/kg KW |
| PNEC (STP) | |
| PNEC sewage treatment plant | 3,24 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.

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8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear security glasses which protect from splashes. Category II. ISO 16321-1. EN ISO 4007:2018

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. Flame retardant antistatic protective clothing. Category III. EN 1149-1. EN 1149-2. EN 1149-3. EN 168. EN ISO 14116. EN 1149-5

Hand protection:

Protective gloves. Category III. EN 420:2004+A1:2010

| Hand protection | | | | | |
|-----------------|---------------------------------|-------------------|----------------|-------------|----------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| | low density polyethylene (LDPE) | 6 (> 480 minutes) | 0,062 | | |

Other skin protection

Materials for protective clothing:

Safety foot-wear. antistatic boots. Heat-resistant. Category III. EN ISO 13287. EN ISO 20345

8.2.2.3. Respiratory protection

Respiratory protection:

Self-filtering mask for gases and particles. Self-filtering mask for gases and vapors. Category III. EN 149:2001+A1:2009. EN 405:2002+A1:2010. EN 136

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 | : Spray |
| Colour | : white. Grey. Black. |
| Odour | : Not available |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : -25 – 168 °C Propellant |
| Flammability | : Extremely flammable aerosol. |
| Explosive properties | : Pressurised container: May burst if heated. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : Not applicable |
| Auto-ignition temperature | : 240 °C Propellant |
| Decomposition temperature | : Not available |
| pH | : Not available |

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| | |
|---|-------------------------|
| Viscosity, kinematic | : Not applicable |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : 3000 hPa |
| Density | : 806 kg/m ³ |
| Relative density | : 0,806 |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 638,41 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 |

| Butanone; ethyl methyl ketone (78-93-3) | |
|---|--------------|
| LD50 oral rat | 2737 mg/kg |
| LD50 dermal rabbit | 6400 mg/kg |
| LC50 Inhalation - Rat | 23,5 mg/l/4h |

| Xylene (1330-20-7) | |
|--------------------|------------|
| LD50 oral rat | 2100 mg/kg |
| LD50 dermal rat | 1100 mg/kg |

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| Dimethylether (115-10-6) | |
|--|--------------------------------------|
| LD50 oral | > 2000 mg/kg |
| LD50 dermal | > 2000 mg/kg |
| LC50 Inhalation - Rat | 308 mg/l/4h |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes (64742-49-0) | |
| LD50 oral | > 2000 mg/kg |
| Ethyl acetate (141-78-6) | |
| LD50 oral rat | 4100 mg/kg |
| LD50 dermal rat | 5620 mg/kg |
| LC50 Inhalation - Rat | 1600 mg/l/4h |
| Solvent naphtha (petroleum), light aromatic (64742-95-6) | |
| LD50 oral rat | 2100 mg/kg |
| LD50 dermal rabbit | 2000 mg/kg |
| 2,6-dimethylheptan-4-one (108-83-8) | |
| LD50 oral | > 2000 mg/kg |
| Butan-2-ol (78-92-2) | |
| LD50 oral | > 2000 mg/kg |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane | |
| LD50 oral rat | > 5840 mg/kg |
| LD50 dermal rabbit | > 2920 mg/kg |
| LC50 Inhalation - Rat | > 25 mg/l/4h |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, Cyclics | |
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rabbit | > 2800 mg/kg |
| LC50 Inhalation - Rat | > 23 mg/l/4h |
| 2-methylpropan-1-ol (78-83-1) | |
| LD50 oral rat | 3350 mg/kg |
| LD50 dermal rabbit | 2460 mg/kg |
| LC50 Inhalation - Rat | 24,6 mg/l/4h |
| Cyclohexane (110-82-7) | |
| LD50 oral rat | 5100 mg/kg |
| 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 |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : May cause drowsiness or dizziness. |
| Butanone; ethyl methyl ketone (78-93-3) | |
| STOT-single exposure | May cause drowsiness or dizziness. |

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| | |
|--|--|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes (64742-49-0) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| Ethyl acetate (141-78-6) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| Solvent naphtha (petroleum), light aromatic (64742-95-6) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| 2,6-dimethylheptan-4-one (108-83-8) | |
| STOT-single exposure | May cause respiratory irritation. |
| Butan-2-ol (78-92-2) | |
| STOT-single exposure | May cause respiratory irritation. May cause drowsiness or dizziness. |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, <5% n-hexane | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, Cyclics | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| 2-methylpropan-1-ol (78-83-1) | |
| STOT-single exposure | May cause respiratory irritation. May cause drowsiness or dizziness. |
| Cyclohexane (110-82-7) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

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. |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

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

14.1. UN number or ID number

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

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR

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



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

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ADN

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



RID

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



14.4. Packing group

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

14.5. Environmental hazards

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

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5F
Special provisions (ADR) : 190, 327, 344, 625
Limited quantities (ADR) : 1I
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P207, LP200
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

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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

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

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VOC Directive (2004/42)

VOC content : 638,41 g/l

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

| Name | CN designation | CAS-No. | CN code | Category | Threshold | Annex |
|-------------------|----------------|---------|------------|------------|-----------|---------|
| Methylethylketone | Butanone | 78-93-3 | 2914 12 00 | Category 3 | | Annex I |

15.1.2. National regulations

France

| Occupational diseases | |
|-----------------------|---|
| Code | Description |
| RG 4 BIS | Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them |
| RG 84 | Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide |

Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Solvent naphtha (petroleum), light aromatic is listed
SZW-lijst van mutagene stoffen : Solvent naphtha (petroleum), light aromatic is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : Xylene is listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| 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 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Eye Dam. 1 | Serious eye damage/eye irritation, 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 |
| 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. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| 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. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Press. Gas (Liq.) | Gases under pressure : Liquefied gas |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.