



ALU ZINC

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 14/10/2024 Revision date: 30/08/2024 Supersedes version of: 19/09/2023 Version: 2.1

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

1.1. Product identifier

Product name : ALU ZINC
UFI : 7YXX-H8CA-Y00V-EKRF
Product code : BDS002373AE
Vaporizer : Aerosol

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

Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Anti Corrosion Products

1.3. Details of the supplier of the safety data sheet

Supplier

CRC Industries Europe B.V.
Touwslagerstraat 1
9240 Zele
Belgium
T +32(0)52/45.60.11, F +32(0)52/45.00.34
hse@crcind.com, www.crcind.com

1.4. Emergency telephone number

Emergency number : +32(0)52/45.60.11
Office hours: 9-17h CET

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|--------------|--|------------------------------|------------------|--|
| Belgium | Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid | Rue Bruyn 1 1120 Brussels | +32 70 245 245 | Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee) |

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

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.

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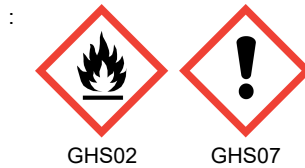
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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

EUH-statements

- : Danger
- : ethyl acetate; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics; Hydrocarbons, C9, aromatics; acetone; propan-2-one; propanone
- : 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.
- : P102 - Keep out of reach of children.
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.
P280 - Wear protective gloves/eye protection.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501 - Dispose of contents/container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- : EUH208 - Contains 4-morpholinecarbaldehyde (4394-85-8). May produce an allergic reaction.

2.3. Other hazards

Contains no PBT and/or 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 substance(s) are 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

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|---|
| propane (Propellant gas (Aerosol)) substance with national workplace exposure limit(s) (BE) | CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5 REACH-no: 01-2119486944-21 | 25 – 50 | Flam. Gas 1, H220 Press. Gas (Liq.), H280 |
| butane (Propellant gas (Aerosol)) substance with national workplace exposure limit(s) (BE) | CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-00-0 REACH-no: 01-2119474691-32 | 25 – 50 | Flam. Gas 1, H220 Press. Gas (Liq.), H280 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|---|
| xylene substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit | CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216-32 | 10 – 50 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Skin Irrit. 2, H315 |
| ethyl acetate substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit | CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-46 | 10 – 50 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 |
| isobutane (Propellant gas (Aerosol)) substance with national workplace exposure limit(s) (BE) | CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-00-0 REACH-no: 01-2119485395-27 | 10 – 25 | Flam. Gas 1, H220 Press. Gas (Liq.), H280 |
| aluminium powder (stabilised) substance with national workplace exposure limit(s) (BE) | CAS-No.: 7429-90-5 EC-No.: 231-072-3 EC Index-No.: 013-002-00-1 REACH-no: 01-2119529243-45 | < 15 | Water-react. 2, H261 Flam. Sol. 1, H228 |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | EC-No.: 919-857-5 REACH-no: 01-2119463258-33 | 1 – 10 | Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066 |
| ethylbenzene substance with a Community workplace exposure limit | CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4 REACH-no: 01-2119489370-35 | 1 – 10 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 |
| acetone; propan-2-one; propanone substance with national workplace exposure limit(s) (BE); 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 | 1 – 10 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 |
| Hydrocarbons, C9, aromatics | CAS-No.: 128601-23-0 EC-No.: 918-668-5 REACH-no: 01-2119455851-35 | < 2,5 | Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| 4-morpholinecarbaldehyde | CAS-No.: 4394-85-8 EC-No.: 224-518-3 REACH-no: 01-2119987993-12 | < 1 | Skin Sens. 1, H317 |

Product subject to CLP Annex I, item 1.1.3.7. The disclosure rules of the components is modified in this case.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

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| | |
|---------------------------------------|---|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. If signs/symptoms develop, get medical attention. |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. Seek medical attention if irritation develops. |
| 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. Seek medical attention if irritation develops. |
| 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. |

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

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 | : During fire, gases hazardous to health may be formed. |

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Firefighting instructions | : Move containers from fire area if it can be done without personal risk. Use standard firefighting procedures and consider the hazards of other involved materials. |
| 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

For non-emergency personnel

| | |
|----------------------|---|
| Protective equipment | : Wear appropriate protective equipment and clothing during clean-up. |
| 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. |

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". |
| Emergency procedures | : Evacuate unnecessary personnel. Ventilate area. |

6.2. Environmental precautions

Avoid release to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|--|
| Methods for cleaning up | : Mechanically recover the product. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Following product recovery, flush area with water. Take up small spills with dry chemical absorbent. Clean surface thoroughly to remove residual contamination. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

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6.4. Reference to other sections

For disposal of contaminated materials refer to section 13 : "Disposal considerations".

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. Avoid prolonged exposure. Handle in accordance with good industrial hygiene and safety procedures. |
| 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. Store in a well-ventilated place. Keep cool. Keep container closed when not in use. |
|--------------------|---|

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

| | |
|---|--|
| propane (74-98-6) | |
| Belgium - Occupational Exposure Limits | |
| Local name | Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3) # Alifatische koolwaterstoffen in gas-vorm: Alkanen (C1-C3) |
| OEL TWA | 1000 ppm |
| Regulatory reference | Koninklijk besluit/Arrêté royal 16/11/2023 |
| isobutane (75-28-5) | |
| Belgium - Occupational Exposure Limits | |
| Local name | Butane, tous isomères: iso-butane # Butaan, alle isomeren: iso-butaan |
| OEL STEL | 2370 mg/m ³ 980 ppm |
| Regulatory reference | Koninklijk besluit/Arrêté royal 16/11/2023 |
| butane (106-97-8) | |
| Belgium - Occupational Exposure Limits | |
| Local name | Butane, tous isomères: n-butane # Butaan, alle isomeren: n-butaan |
| OEL STEL | 2370 mg/m ³ 980 ppm |
| Regulatory reference | Koninklijk besluit/Arrêté royal 16/11/2023 |

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| xylene (1330-20-7) | |
|---|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Xylene, mixed isomers, pure |
| IOEL TWA | 221 mg/m ³ |
| | 50 ppm |
| IOEL STEL | 442 mg/m ³ |
| | 100 ppm |
| Remark | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Belgium - Occupational Exposure Limits | |
| Local name | Xylène, isomères mixtes, purs # Xyleen, mengsel van isomeren, zuiver |
| OEL TWA | 221 mg/m ³ |
| | 50 ppm |
| OEL STEL | 442 mg/m ³ |
| | 100 ppm |
| Remark | D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht. |
| Regulatory reference | Koninklijk besluit/Arrêté royal 16/11/2023 |
| ethyl acetate (141-78-6) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Ethyl acetate |
| IOEL TWA | 734 mg/m ³ |
| | 200 ppm |
| IOEL STEL | 1468 mg/m ³ |
| | 400 ppm |
| Regulatory reference | COMMISSION DIRECTIVE (EU) 2017/164 |
| Belgium - Occupational Exposure Limits | |
| Local name | Acétate d'éthyle # Ethylacetaat |
| OEL TWA | 734 mg/m ³ |
| | 200 ppm |
| OEL STEL | 1468 mg/m ³ |
| | 400 ppm |
| Regulatory reference | Koninklijk besluit/Arrêté royal 16/11/2023 |
| aluminium powder (stabilised) (7429-90-5) | |
| Belgium - Occupational Exposure Limits | |
| Local name | Aluminium # Aluminium |

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| aluminium powder (stabilised) (7429-90-5) | |
|---|--|
| OEL TWA | 2 mg/m ³ (composés alkylés) (en Al) # Aluminiumalkylen (als Al) 1 mg/m ³ (métal et composés insolubles, fraction alvéolaire) # (metaal en onoplosbare verbindingen, inadembare fractie) |
| Regulatory reference | Koninklijk besluit/Arrêté royal 16/11/2023 |
| ethylbenzene (100-41-4) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Ethylbenzene |
| IOEL TWA | 442 mg/m ³ 100 ppm |
| IOEL STEL | 884 mg/m ³ 200 ppm |
| Remark | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| acetone; propan-2-one; propanone (67-64-1) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Acetone |
| IOEL TWA | 1210 mg/m ³ 500 ppm |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Belgium - Occupational Exposure Limits | |
| Local name | Acétone # Aceton |
| OEL TWA | 594 mg/m ³ 246 ppm |
| OEL STEL | 1187 mg/m ³ 492 ppm |
| Regulatory reference | Koninklijk besluit/Arrêté royal 16/11/2023 |
| DNEL and PNEC | |
| 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 bodyweight/day |
| 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 bodyweight/day |
| Long-term - systemic effects, inhalation | 65,3 mg/m ³ |

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| xylene (1330-20-7) | |
|--|--------------------------|
| Long-term - systemic effects, dermal | 125 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 |
| ethyl acetate (141-78-6) | |
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, inhalation | 1468 mg/m ³ |
| Acute - local effects, inhalation | 1468 mg/m ³ |
| Long-term - systemic effects, dermal | 63 mg/kg bodyweight/day |
| 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 bodyweight/day |
| Long-term - systemic effects, inhalation | 367 mg/m ³ |
| Long-term - systemic effects, dermal | 37 mg/kg bodyweight/day |
| 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 dwt |
| PNEC sediment (marine water) | 0,115 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0,148 mg/kg dwt |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 0,2 g/kg food |

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| | |
|--|---------------------------|
| ethyl acetate (141-78-6) | |
| PNEC (STP) | |
| PNEC sewage treatment plant | 650 mg/l |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 208 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 871 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects,oral | 125 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 185 mg/m ³ |
| Long-term - systemic effects, dermal | 125 mg/kg bodyweight/day |
| 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 |
| 4-morpholinecarbaldehyde (4394-85-8) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 11,7 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 50,3 mg/m ³ |
| Long-term - local effects, inhalation | 13,3 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects,oral | 4,17 mg/kg bodyweight/day |

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| 4-morpholinecarbaldehyde (4394-85-8) | |
|---|---------------------------|
| Long-term - systemic effects, inhalation | 8,93 mg/m ³ |
| Long-term - systemic effects, dermal | 4,17 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 13,3 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0,5 mg/l |
| PNEC aqua (marine water) | 0,05 mg/l |
| PNEC aqua (intermittent, freshwater) | 5 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 1,85 mg/kg dwt |
| PNEC sediment (marine water) | 0,185 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0,0764 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 2000 mg/l |
| acetone; propan-2-one; propanone (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 |

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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Personal protection equipment

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Use eye protection according to EN 166. Safety glasses with side shields.

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves tested to EN374. The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Butyl-rubber protective gloves.

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Approved organic vapour respirator. Filter type: AX

Thermal hazards

Thermal hazard protection:

Not expected to present a significant hazard under anticipated conditions of normal use. Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Liquid |
| Colour | : Grey. |
| Appearance | : Propane/butane propelled liquid. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Extremely flammable aerosol. |
| Explosive properties | : Pressurised container: May burst if heated. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : -18 °C (closed cup) |
| Auto-ignition temperature | : > 200 °C |
| Decomposition temperature | : Not available |
| pH | : Not applicable |
| Viscosity, kinematic | : Not available |
| Solubility | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not applicable |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : 0,933 g/cm ³ at 20 °C |
| Relative density | : 0,933 at 20 °C |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

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9.2. Other information

Information with regard to physical hazard classes

% of flammable ingredients : 75 – 100 %

Other safety characteristics

VOC content : 550 g/l

Additional information : For aerosols data for the product without propellant.

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

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Inhalation:dust,mist: Not classified (Based on available data, the classification criteria are not met).

| xylene (1330-20-7) | |
|--|------------------------------|
| LD50 oral | 4300 mg/kg bodyweight |
| LD50 dermal rabbit | 12126 mg/kg bodyweight |
| LC50 Inhalation - Rat [ppm] | > ppm |
| ethyl acetate (141-78-6) | |
| LD50 oral | 4934 mg/kg bodyweight |
| LD50 dermal rabbit | > 20000 (<) mg/kg bodyweight |
| aluminium powder (stabilised) (7429-90-5) | |
| LD50 oral rat | > 15900 mg/kg bodyweight |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |

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| | |
|--|---|
| Hydrocarbons, C9, aromatics (128601-23-0) | |
| LD50 oral rat | 3592 mg/kg |
| LD50 dermal rabbit | > 3160 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 6,193 mg/l/4h |
| ethylbenzene (100-41-4) | |
| LD50 oral rat | ≈ 3500 mg/kg bodyweight |
| LD50 oral | 3500 mg/kg bodyweight |
| 4-morpholinecarbaldehyde (4394-85-8) | |
| LD50 oral rat | > 7314 mg/kg bodyweight |
| LD50 dermal rabbit | > 18400 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 5,319 mg/l/4h |
| acetone; propan-2-one; propanone (67-64-1) | |
| LD50 oral rat | 5800 mg/kg bodyweight |
| LD50 dermal | > 15688 mg/kg bodyweight |
| LC50 Inhalation - Rat | 76 mg/l/4h |
| Skin corrosion/irritation | : Causes skin irritation. pH: Not applicable |
| 4-morpholinecarbaldehyde (4394-85-8) | |
| pH | 10 |
| Serious eye damage/irritation | : Causes serious eye irritation. pH: Not applicable |
| 4-morpholinecarbaldehyde (4394-85-8) | |
| pH | 10 |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| aluminium powder (stabilised) (7429-90-5) | |
| NOAEL (animal/male, F0/P) | 1000 mg/kg bodyweight |
| STOT-single exposure | : May cause drowsiness or dizziness. |
| ethyl acetate (141-78-6) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| Hydrocarbons, C9, aromatics (128601-23-0) | |
| STOT-single exposure | May cause drowsiness or dizziness. May cause respiratory irritation. |
| acetone; propan-2-one; propanone (67-64-1) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| ethyl acetate (141-78-6) | |
| LOAEL (oral, rat, 90 days) | 3600 mg/kg bodyweight |

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| | |
|--|---|
| ethyl acetate (141-78-6) | |
| NOAEL (oral, rat, 90 days) | 900 mg/kg bodyweight |
| aluminium powder (stabilised) (7429-90-5) | |
| NOAEL (subchronic, oral, animal/male, 90 days) | 1034 mg/kg bodyweight |
| NOAEL (subchronic, oral, animal/female, 90 days) | 1087 mg/kg bodyweight |
| Hydrocarbons, C9, aromatics (128601-23-0) | |
| NOAEL (oral, rat, 90 days) | 600 mg/kg bodyweight |
| ethylbenzene (100-41-4) | |
| NOAEL (oral, rat, 90 days) | 75 mg/kg bodyweight |
| STOT-repeated exposure | May cause damage to organs (hearing organs) through prolonged or repeated exposure. |
| 4-morpholinecarbaldehyde (4394-85-8) | |
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |
| ALU ZINC | |
| Vaporizer | Aerosol |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
| Viscosity, kinematic | 1,33 mm ² /s |

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : 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 substance(s) are 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 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 (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

| | |
|--|-------------------------------------|
| ethyl acetate (141-78-6) | |
| LC50 - Fish [1] | 230 mg/l |
| EC50 - Other aquatic organisms [1] | 717 mg/l Daphnia magna (Water flea) |
| NOEC (chronic) | 2,4 mg/l 21 d |
| aluminium powder (stabilised) (7429-90-5) | |
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Other aquatic organisms [2] | > 100 mg/l |

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| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
|--|---|
| LC50 - Fish [1] | > 1000 mg/l |
| EC50 - Crustacea [1] | > 1000 mg/l |
| EC50 - Other aquatic organisms [1] | > 1000 mg/l |
| EC50 72h - Algae [1] | > 1000 mg/l |
| Hydrocarbons, C9, aromatics (128601-23-0) | |
| LC50 - Fish [1] | 9,2 mg/l |
| EC50 - Crustacea [1] | 3,2 mg/l |
| EC50 72h - Algae [1] | 2,6 – 2,9 mg/l |
| ethylbenzene (100-41-4) | |
| LC50 - Fish [1] | 5,1 mg/l <i>Menidia menidia</i> |
| EC50 72h - Algae [1] | 5,4 mg/l <i>Raphidocelis subcapitata</i> |
| EC50 96h - Algae [2] | 7,7 mg/l <i>Skeletonema costatum</i> |
| 4-morpholinecarbaldehyde (4394-85-8) | |
| LC50 - Fish [1] | > 500 mg/l <i>Leuciscus idus</i> |
| EC50 - Crustacea [1] | > 500 mg/l <i>Daphnia magna</i> |
| EC50 72h - Algae [1] | 23880 mg/l <i>Desmodesmus subspicatus</i> |
| EC50 72h - Algae [2] | 17440 mg/l <i>Desmodesmus subspicatus</i> |
| acetone; propan-2-one; propanone (67-64-1) | |
| LC50 - Fish [1] | 5540 mg/l |
| EC50 - Other aquatic organisms [1] | 12600 mg/l <i>Daphnia magna</i> (Water flea) |
| LOEC (chronic) | > 79 mg/l |
| NOEC (chronic) | ≥ 79 mg/l |
| 12.2. Persistence and degradability | |
| ALU ZINC | |
| Persistence and degradability | Not established. No data is available on the degradability of this product. |
| 12.3. Bioaccumulative potential | |
| ALU ZINC | |
| Partition coefficient n-octanol/water (Log Kow) | Not applicable |
| xylene (1330-20-7) | |
| Partition coefficient n-octanol/water (Log Pow) | 3,1 |
| ethyl acetate (141-78-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 0,7 |
| ethylbenzene (100-41-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 3,6 |
| 4-morpholinecarbaldehyde (4394-85-8) | |
| Partition coefficient n-octanol/water (Log Pow) | -1,32 |

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acetone; propan-2-one; propanone (67-64-1)

Partition coefficient n-octanol/water (Log Pow) -0,24

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

ALU ZINC

Results of PBT assessment Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : 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 substance(s) are 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 %.

12.7. Other adverse effects

Additional information : No other effects known
Global warming potential (GWP) : 2.10 (Fluorinated greenhouse gases - (EC) No 2024/573)






SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
European List of Waste (LoW, EC 2000/532) : According to the European Waste Catalogue (EWC), Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| 14.1. UN number or ID number | | | | |
| UN 1950 | UN 1950 | UN 1950 | UN 1950 | UN 1950 |
| 14.2. UN proper shipping name | | | | |
| AEROSOLS | AEROSOLS | Aerosols, flammable | AEROSOLS | AEROSOLS |
| Transport document description | | | | |
| UN 1950 AEROSOLS, 2.1, (D) | UN 1950 AEROSOLS, 2.1 | UN 1950 Aerosols, flammable, 2.1 | UN 1950 AEROSOLS, 2.1 | UN 1950 AEROSOLS, 2.1 |
| 14.3. Transport hazard class(es) | | | | |
| 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
|  |  |  |  |  |

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| ADR | IMDG | IATA | ADN | RID |
|--|---|-----------------------------------|-----------------------------------|-----------------------------------|
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-D EmS-No. (Spillage): S-U | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| 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 |
| Limited quantities (IMDG) | : SP277 |
| Excepted quantities (IMDG) | : E0 |
| Packing instructions (IMDG) | : P207, LP200 |
| Special packing provisions (IMDG) | : PP87, L2 |
| 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 |

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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

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)

Council Regulation (EC) for the control of dual-use items

Contains substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items: Aluminium powder (7429-90-5).

VOC Directive (2004/42)

VOC content : 550 g/l

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

| Name | CAS-No. | Combined Nomenclature code (CN) | Combined Nomenclature code for mixture without constituents which would determine classification under another CN code |
|---------|---------|---------------------------------|--|
| Acetone | 67-64-1 | 2914 11 00 | ex 3824 99 92 |

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)

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| Name | CN designation | CAS-No. | CN code | Category, Subcategory | Threshold | Annex |
|---------|----------------|---------|------------|-----------------------|-----------|---------|
| Acetone | | 67-64-1 | 2914 11 00 | Category 3 | | Annex I |

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 |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| 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 |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |

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Abbreviations and acronyms:

| | |
|---------|--|
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disruptor |

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 |
| 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 |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH208 | Contains 4-morpholinecarbaldehyde (4394-85-8). May produce an allergic reaction. |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Gas 1 | Flammable gases, Category 1 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Flam. Sol. 1 | Flammable solids, Category 1 |
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H228 | Flammable solid. |
| H229 | Pressurised container: May burst if heated. |
| H261 | In contact with water releases flammable gases. |
| 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. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| 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. |
| Press. Gas (Liq.) | Gases under pressure : Liquefied gas |

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Full text of H- and EUH-statements:

| | |
|----------------|--|
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |
| Water-react. 2 | Substances and Mixtures which, in contact with water, emit flammable gases, Category 2 |

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