



Injection System Purge

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 09.10.2023 Revision date: 08.05.2023 Version: 9.05

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

1.1. Product identifier

Product form : Mixture
Product name : Injection System Purge
Product code : W76695
Type of product : Detergent
Product group : Trade product

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Petrol injection cleaner

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

ITW ADDITIVES INTL B.V.
Industriepark-West 46
9100 Sint-Niklaas
BELGIUM
T +32 3 766 60 20 - F +32 3 778 16 56
msds@wynns.eu - www.wynns.com

Distributor

Krafft S.L.U.
Carretera de Urnieta, s/n
20140 Andoain - Guipúzcoa
ESPAÑA
T +34 943 410 400 - F +34 943 410 440
msds@krafft.es - www.krafft.es

Distributor

Wynn's Automotive France S.A.S.
2 Av. Léonard de Vinci Z.A. Europarc
33600 PESSAC Cedex
FRANCE
T +33 5 57 26 29 00
contact@wynns.fr - www.wynns.fr

Distributor

ITW Automotive Aftermarket
Saxon House, 2-4 Victoria Street
SL4 1EN Windsor
UNITED KINGDOM
T +44 (0)24 7647 2634
sales@wynns.uk.com - www.wynns.uk.com

1.4. Emergency telephone number

Emergency number : BIG: +32(0)14 58 45 45 (NL FR EN DE)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| | |
|---|------|
| Flammable liquids, Category 2 | H225 |
| Acute toxicity (inhalation:dust,mist) Category 4 | H332 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis | H336 |
| Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | H335 |
| Specific target organ toxicity – Repeated exposure, Category 2 | H373 |
| Aspiration hazard, Category 1 | H304 |
| 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

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: reaction mass of ethylbenzene and xylene ; Propan-2-ol; hydrocarbons, C6, isoalkanes, <5% n-hexane; Pentane

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H373 - May cause damage to organs (hearing organs) through prolonged or repeated exposure (if inhaled, oral).
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.
P405 - Store locked up.
P210 - Keep away from hot surfaces, open flames, sparks, heat. – No smoking.
P261 - Avoid breathing vapours.
P280 - Wear protective gloves, eye protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 - Do NOT induce vomiting.
P273 - Avoid release to the environment.

2.3. Other hazards

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

| Component | |
|-----------------------|---|
| Propan-2-ol (67-63-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

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

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3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|--|
| reaction mass of ethylbenzene and xylene | EC-No.: 905-588-0 REACH-no: 01-2119488216-32 | 25 – 50 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 |
| Propan-2-ol | CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25 | 10 – 25 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| hydrocarbons, C6, isoalkanes, <5% n-hexane | EC-No.: 931-254-9 REACH-no: 01-2119484651-34 | 10 – 25 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Pentane | CAS-No.: 109-66-0 EC-No.: 203-692-4 EC Index-No.: 601-006-00-1 REACH-no: 01-2119459286-30 | 10 – 25 | Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 |
| 2-butoxyethanol substance with a Community workplace exposure limit | CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0 REACH-no: 01-2119475108-36 | 5 – 10 | Acute Tox. 4 (Oral), H302 (ATE=1200 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=3 mg/l) Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| n-Butylpyrrolidone | CAS-No.: 3470-98-2 EC-No.: 222-437-8 REACH-no: 01-2120062728-48 | 2,5 – 5 | Acute Tox. 4 (Oral), H302 (ATE=301 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| amines, coco alkyl, ethoxylated (12 EO) | CAS-No.: 61791-14-8 EC-No.: 500-152-2 | 1 – 2,5 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Dam. 1, H318 Aquatic Chronic 3, H412 |
| 2,2'-iminodiethanol | CAS-No.: 111-42-2 EC-No.: 203-868-0 EC Index-No.: 603-071-00-1 REACH-no: 01-2119488930-28 | 0,1 – 1 | Acute Tox. 4 (Oral), H302 (ATE=1600 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361fd STOT RE 2, H373 |

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| Specific concentration limits: | | |
|--|---|-----------------------------------|
| Name | Product identifier | Specific concentration limits (%) |
| reaction mass of ethylbenzene and xylene | EC-No.: 905-588-0 REACH-no: 01-2119488216-32 | (10 ≤ C < 100) STOT RE 2, H373 |

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 | : Check the vital functions. Keep victim at rest in half upright position. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Keep watching the victim. Give psychological aid. Prevent cooling by covering the victim (no warming up). Keep the victim calm, avoid physical strain. If necessary seek medical advice. |
| First-aid measures after inhalation | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophtalmologist if irritation persists. |
| First-aid measures after ingestion | : If swallowed, rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Ingestion of large quantities: immediately to hospital. |

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. ABC-powder. AFFF foam. Alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

| | |
|------------------|--|
| Fire hazard | : Highly flammable liquid and vapour. Take precautionary measures against static discharges. This material can accumulate static charge by flow or agitation and can be ignited by static discharge. |
| Explosion hazard | : No direct explosion hazard. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Prevent fire fighting water from entering the environment. Contain the extinguishing fluids by bunding. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|--|
| General measures | : Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Use special care to avoid static electric charges. No open flames. No smoking. |
|------------------|--|

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6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable gloves and eye/face protection. protective clothing. Wear suitable respiratory equipment in case of insufficient ventilation.
- Emergency procedures : Mark the danger area. Prevent flow to low areas. In confined space use self-contained breathing apparatus. Take off contaminated clothing.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage. Contain the spilled material by bunding. Eliminate ignition sources. Contain leaking substance, pump over in suitable containers. Recover large spills by pumping (use an explosion proof or hand pump).
- Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Scoop absorbed substance into closing containers. Clean preferably with a detergent - Avoid the use of solvents. Dispose in a safe manner in accordance with local/national regulations.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Meet the legal requirements. Repeated exposure may cause skin dryness or cracking. Provide good ventilation in process area to prevent formation of vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Presents no particular risk when handled in accordance with good occupational hygiene practice.
- Hygiene measures : Use good personal hygiene practices. IF ON SKIN: Wash with plenty of water/.... Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Provide good ventilation in process area to prevent formation of vapour. Take precautionary measures against static discharge. Does not require any specific or particular technical measures.
- Storage conditions : Meet the legal requirements. Store in a dry place. Store in a closed container. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Storage temperature : < 45 °C
- Storage area : Meet the legal requirements. Fireproof storeroom. Ventilation along the floor.
- Special rules on packaging : Store in a dry place. Store in a closed container. Labelling according to.

7.3. Specific end use(s)

See product bulletin for detailed information. Follow the instructions for use of the associated device.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Propan-2-ol (67-63-0) | |
|--|-----------------------|
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 500 mg/m ³ |

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| Propan-2-ol (67-63-0) | |
|---|--|
| OEL TWA [ppm] | 200 ppm |
| OEL STEL | 1000 mg/m ³ |
| OEL STEL [ppm] | 400 ppm |
| France - Occupational Exposure Limits | |
| VLE (OEL C/STEL) | 980 mg/m ³ |
| VLE (OEL C/STEL) [ppm] | 400 ppm |
| Pentane (109-66-0) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 1800 mg/m ³ |
| OEL TWA [ppm] | 600 ppm |
| OEL STEL | 2250 mg/m ³ |
| OEL STEL [ppm] | 750 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 1000 ppm |
| 2-butoxyethanol (111-76-2) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | 2-Butoxyethanol |
| IOEL TWA | 98 mg/m ³ |
| IOEL TWA [ppm] | 20 ppm |
| IOEL STEL | 246 mg/m ³ |
| IOEL STEL [ppm] | 50 ppm |
| Remark | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Belgium - Occupational Exposure Limits | |
| Local name | 2-Butoxyéthanol # 2-Butoxy-ethanol |
| OEL TWA | 98 mg/m ³ |
| OEL TWA [ppm] | 20 ppm |
| OEL STEL | 246 mg/m ³ |
| OEL STEL [ppm] | 50 ppm |
| Regulatory reference | Koninklijk besluit/Arrêté royal 11/03/2002 |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 49 mg/m ³ |
| VME (OEL TWA) [ppm] | 10 ppm |
| VLE (OEL C/STEL) | 246 mg/m ³ |
| VLE (OEL C/STEL) [ppm] | 50 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 98 mg/m ³ |
| CK (OEL STEL) | 246 mg/m ³ |

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| 2-butoxyethanol (111-76-2) | |
|---|---------------------------|
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 100 mg/m ³ |
| TGG-8u (OEL TWA) [ppm] | 20 ppm |
| TGG-15min (OEL STEL) | 246 mg/m ³ |
| TGG-15min (OEL STEL) [ppm] | 50 ppm |
| 2,2'-iminodiethanol (111-42-2) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 2 mg/m ³ |
| OEL TWA [ppm] | 0,46 ppm |
| Remark | D |
| 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 | |
| reaction mass of ethylbenzene and xylene | |
| 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 |
| 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 |

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| Propan-2-ol (67-63-0) | |
|--|----------------------------|
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 888 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 500 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 26 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 89 mg/m ³ |
| Long-term - systemic effects, dermal | 319 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 140,9 mg/l |
| PNEC aqua (marine water) | 140,9 mg/l |
| PNEC aqua (intermittent, freshwater) | 140,9 mg/l |
| PNEC aqua (intermittent, marine water) | 140,9 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 552 mg/kg dwt |
| PNEC sediment (marine water) | 552 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 28 mg/kg dwt |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 160 mg/kg food |
| PNEC (STP) | |
| PNEC sewage treatment plant | 2251 mg/l |
| hydrocarbons, C6, isoalkanes, <5% n-hexane | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 13964 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 5306 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 1301 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1131 mg/m ³ |
| Long-term - systemic effects, dermal | 1377 mg/kg bodyweight/day |
| 2-butoxyethanol (111-76-2) | |
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, dermal | 89 mg/kg bodyweight/day |
| Acute - systemic effects, inhalation | 1091 mg/m ³ |
| Long-term - systemic effects, dermal | 125 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 98 mg/m ³ |
| Long-term - local effects, inhalation | 246 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, dermal | 89 mg/kg bodyweight |

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| 2-butoxyethanol (111-76-2) | |
|--|--------------------------|
| Acute - systemic effects, inhalation | 426 mg/m ³ |
| Acute - systemic effects, oral | 26,7 mg/kg bodyweight |
| Long-term - systemic effects, oral | 6,3 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 59 mg/m ³ |
| Long-term - systemic effects, dermal | 75 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 147 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 8,8 mg/l |
| PNEC aqua (marine water) | 0,88 mg/l |
| PNEC aqua (intermittent, freshwater) | 9,1 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 34,6 mg/kg dwt |
| PNEC sediment (marine water) | 3,46 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 2,33 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 463 mg/l |
| n-Butylpyrrolidone (3470-98-2) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 10 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 70,5 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, oral | 2,5 mg/kg bodyweight |
| Long-term - systemic effects, oral | 2,5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 17,4 mg/m ³ |
| Long-term - systemic effects, dermal | 5 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0,8 mg/l |
| PNEC aqua (marine water) | 0,08 mg/l |
| PNEC aqua (intermittent, freshwater) | 1 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 6,336 mg/kg dwt |
| PNEC sediment (marine water) | 0,634 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0,795 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 30,62 mg/l |

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| 2,2',2''-nitrioltriethanol (102-71-6) | |
|--|---------------------------|
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 6,3 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 5 mg/m ³ |
| Long-term - local effects, inhalation | 5 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 13 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1,25 mg/m ³ |
| Long-term - systemic effects, dermal | 3,1 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 1,25 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0,32 mg/l |
| PNEC aqua (marine water) | 0,032 mg/l |
| PNEC aqua (intermittent, freshwater) | 5,12 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 1,7 mg/kg dwt |
| PNEC sediment (marine water) | 0,17 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0,151 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 10 mg/l |
| 2,2'-iminodiethanol (111-42-2) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 0,13 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 1 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 0,06 mg/kg bodyweight/day |
| Long-term - systemic effects, dermal | 0,07 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 0,25 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0,0156 mg/l |
| PNEC aqua (marine water) | 0,00156 mg/l |
| PNEC aqua (intermittent, freshwater) | 0,097 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0,0718 mg/kg dwt |
| PNEC sediment (marine water) | 0,00718 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0,00518 mg/kg dwt |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 1,04 mg/kg food |

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2,2'-iminodiethanol (111-42-2)

PNEC (STP)

| | |
|-----------------------------|----------|
| PNEC sewage treatment plant | 100 mg/l |
|-----------------------------|----------|

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide good ventilation in process area to prevent formation of vapour. Does not require any specific or particular technical measures.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

Hand protection:

Neoprene. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Breakthrough time : >30'. Thickness of the glove material >0,1 mm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------|-----------------------------|
| Physical state | : Liquid |
| Colour | : light yellow. |
| Appearance | : clear. |
| Odour | : aromatic. |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : ≥ 36 °C (ASTM D1078) |
| Flammability | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : -18 °C Calculated |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |

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| | |
|---|---|
| Viscosity, kinematic | : 0,8 mm ² /s @ 40°C (ASTM D445) |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : 800 kg/m ³ @ 20°C (ASTM D4052) |
| Relative density | : Not available |
| 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

Additional information : The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from strong acids and strong oxidizers. Protect from sunlight.

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) | : Harmful if inhaled. |

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|--|--|
| ATE CLP (dust,mist) | 4,286 mg/l/4h |
| reaction mass of ethylbenzene and xylene | |
| LD50 oral rat | 3523 mg/kg bodyweight F344/N |
| LD50 dermal rabbit | 12126 mg/kg bodyweight New Zealand White |
| Propan-2-ol (67-63-0) | |
| LD50 oral rat | 5840 mg/kg bodyweight Sherman |

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| Propan-2-ol (67-63-0) | |
|---|--|
| LD50 dermal rabbit | 13900 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 25 mg/l Vapour |
| hydrocarbons, C6, isoalkanes, <5% n-hexane | |
| LD50 oral rat | 16750 mg/kg bodyweight Long-Evans |
| LD50 dermal rabbit | 3350 mg/kg bodyweight New Zealand White |
| LC50 Inhalation - Rat | 259,354 mg/l/4h Long-Evans |
| Pentane (109-66-0) | |
| LD50 oral rat | > 2000 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 25,3 mg/l/4h Sprague-Dawley |
| 2-butoxyethanol (111-76-2) | |
| LD50 oral rat | 1200 mg/kg bodyweight Rat |
| LD50 dermal rat | > 2000 mg/kg bodyweight Sprague-Dawley |
| n-Butylpyrrolidone (3470-98-2) | |
| LD50 oral rat | 301 (≤ 1999) mg/kg bodyweight RccHan: WIST (SPF) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Wistar |
| 2,2'-iminodiethanol (111-42-2) | |
| LD50 oral rat | 1600 mg/kg |
| Skin corrosion/irritation | : Causes skin irritation. |
| amines, coco alkyl, ethoxylated (12 EO) (61791-14-8) | |
| pH | ≈ 10 |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| amines, coco alkyl, ethoxylated (12 EO) (61791-14-8) | |
| pH | ≈ 10 |
| 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. May cause respiratory irritation. |
| reaction mass of ethylbenzene and xylene | |
| STOT-single exposure | May cause respiratory irritation. |
| Propan-2-ol (67-63-0) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| hydrocarbons, C6, isoalkanes, <5% n-hexane | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| Pentane (109-66-0) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| STOT-repeated exposure | : May cause damage to organs (hearing organs) through prolonged or repeated exposure (if inhaled, oral). |

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| reaction mass of ethylbenzene and xylene | |
|--|--|
| STOT-repeated exposure | May cause damage to organs (hearing organs) through prolonged or repeated exposure (oral, if inhaled). |
| 2,2'-iminodiethanol (111-42-2) | |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |
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| Viscosity, kinematic | 0,8 mm ² /s @ 40°C (ASTM D445) |
| reaction mass of ethylbenzene and xylene | |
| Viscosity, kinematic | < 0,74 mm ² /s |
| Aliphatic, alicyclic or aromatic hydrocarbon | Yes |
| hydrocarbons, C6, isoalkanes, <5% n-hexane | |
| Viscosity, kinematic | < 1 mm ² /s |
| Aliphatic, alicyclic or aromatic hydrocarbon | Yes |
| Pentane (109-66-0) | |
| Viscosity, kinematic | < 1 mm ² /s |
| Aliphatic, alicyclic or aromatic hydrocarbon | Yes |
| 2-butoxyethanol (111-76-2) | |
| Viscosity, kinematic | < 3,7 mm ² /s |
| n-Butylpyrrolidone (3470-98-2) | |
| Viscosity, kinematic | 4,48 mm ² /s |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : This product contains hazardous components for the aquatic environment. |
| Ecology - water | : 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. |

| reaction mass of ethylbenzene and xylene | |
|--|-----------------------------------|
| LC50 - Fish [1] | > 2,6 mg/l @96h |
| EC50 - Other aquatic organisms [1] | 72h 2,2 mg/l |
| Propan-2-ol (67-63-0) | |
| LC50 - Fish [1] | 96h 9640 mg/l pimephales promelas |
| EC50 - Crustacea [1] | 24h 9714 mg/l daphnia magna |
| LOEC (chronic) | 1000 mg/l @8d algae |

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| hydrocarbons, C6, isoalkanes, <5% n-hexane | |
|---|---|
| LC50 - Fish [1] | 96h 12,51 mg/l Oncorhynchus mykiss |
| EC50 - Crustacea [1] | 48h 23,22 mg/l Daphnia magna |
| EC50 - Other aquatic organisms [1] | 72h 13,56 mg/l Pseudokirchneriella subcapitata |
| Pentane (109-66-0) | |
| LC50 - Fish [1] | 96h 4,26 mg/l Oncorhynchus mykiss |
| EC50 - Crustacea [1] | 48h 2,7 mg/l Daphnia magna |
| EC50 - Other aquatic organisms [1] | 72h 10,7 mg/l Scenedesmus capricornutum |
| NOEC (acute) | 72h 2,04 mg/l Scenedesmus capricornutum |
| 2-butoxyethanol (111-76-2) | |
| LC50 - Fish [1] | 96h 1464 mg/l Oncorhynchus mykiss |
| EC50 - Crustacea [1] | 48h 1800 mg/l Daphnia magna |
| EC50 - Other aquatic organisms [1] | 72h 911 mg/l Pseudokirchneriella subcapitata |
| NOEC (acute) | 72h 88 mg/l Pseudokirchneriella subcapitata |
| n-Butylpyrrolidone (3470-98-2) | |
| LC50 - Fish [1] | > 100 mg/l @96h Oncorhynchus mykiss |
| EC50 - Crustacea [1] | > 100 mg/l Daphnia magna |
| EC50 - Other aquatic organisms [1] | > 160 mg/l @72h Pseudokirchneriella subcapitata |
| ErC50 algae | > 160 mg/l @72h Pseudokirchneriella subcapitata |
| NOEC (acute) | 100 mg/l Oncorhynchus mykiss |
| amines, coco alkyl, ethoxylated (12 EO) (61791-14-8) | |
| EC50 - Crustacea [1] | 10 – 100 mg/l daphnia magna |
| EC50 - Other aquatic organisms [1] | 10 – 100 mg/l desmodesmus subspicatus |
| NOEC (acute) | 48h 1 mg/l daphnia magna |
| 2,2'-iminodiethanol (111-42-2) | |
| LC50 - Fish [1] | 96h 460 mg/l Oncorhynchus mykiss |
| EC50 - Crustacea [1] | 48h 30 mg/l Ceriodaphnia dubia |
| EC50 - Other aquatic organisms [1] | 72h 9,5 mg/l pseudokirchneriella subcapitata |
| NOEC chronic crustacea | 1,05 mg/l |

12.2. Persistence and degradability

| Propan-2-ol (67-63-0) | |
|---------------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Pentane (109-66-0) | |
| Persistence and degradability | Readily biodegradable. |
| 2-butoxyethanol (111-76-2) | |
| Persistence and degradability | Readily biodegradable. |
| n-Butylpyrrolidone (3470-98-2) | |
| Persistence and degradability | biodegradable. |

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amines, coco alkyl, ethoxylated (12 EO) (61791-14-8)

| | |
|----------------|--|
| Biodegradation | 28d 72 % OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D |
|----------------|--|

2,2'-iminodiethanol (111-42-2)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

12.3. Bioaccumulative potential

Propan-2-ol (67-63-0)

| | |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 0,05 |
|---|------|

| | |
|---|-----|
| Partition coefficient n-octanol/water (Log Kow) | < 4 |
|---|-----|

| | |
|---------------------------|---------------------|
| Bioaccumulative potential | No bioaccumulation. |
|---------------------------|---------------------|

Pentane (109-66-0)

| | |
|---------------------------|------------------------|
| Bioaccumulative potential | Readily biodegradable. |
|---------------------------|------------------------|

2-butoxyethanol (111-76-2)

| | |
|---------------------------|---------------------------|
| Bioaccumulative potential | Slightly bioaccumulative. |
|---------------------------|---------------------------|

n-Butylpyrrolidone (3470-98-2)

| | |
|---------------------------|---------------------|
| Bioaccumulative potential | No bioaccumulation. |
|---------------------------|---------------------|

12.4. Mobility in soil

2-butoxyethanol (111-76-2)

| | |
|----------------|-------------------|
| Ecology - soil | Small adsorption. |
|----------------|-------------------|

n-Butylpyrrolidone (3470-98-2)

| | |
|--|------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 43,2 |
|--|------|

12.5. Results of PBT and vPvB assessment

Component

| | |
|-----------------------|---|
| Propan-2-ol (67-63-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
|-----------------------|---|

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

- Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Remove to an authorized waste treatment plant. Avoid release to the environment.
- European List of Waste (LoW) code : 15 01 10* - packaging containing residues of or contaminated by dangerous substances
18 01 06* - chemicals consisting of or containing dangerous substances






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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 1993 | UN 1993 | UN 1993 | UN 1993 | UN 1993 |
| 14.2. UN proper shipping name | | | | |
| FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol) | FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol) | Flammable liquid, n.o.s. (hexanes, isopropanol) | FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol) | FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol) |
| Transport document description | | | | |
| UN 1993 FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol), 3, II, (D/E) | UN 1993 FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol), 3, II | UN 1993 Flammable liquid, n.o.s. (hexanes, isopropanol), 3, II | UN 1993 FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol), 3, II | UN 1993 FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol), 3, II |
| 14.3. Transport hazard class(es) | | | | |
| 3 | 3 | 3 | 3 | 3 |
|  |  |  |  |  |
| 14.4. Packing group | | | | |
| II | II | II | II | II |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | 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) | : F1 |
| Special provisions (ADR) | : 274, 601, 640D |
| Limited quantities (ADR) | : 1I |
| Excepted quantities (ADR) | : E2 |
| Packing instructions (ADR) | : P001, IBC02, R001 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : T7 |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP8, TP28 |
| Tank code (ADR) | : LGBF |
| Vehicle for tank carriage | : FL |
| Transport category (ADR) | : 2 |
| Special provisions for carriage - Operation (ADR) | : S2, S20 |
| Hazard identification number (Kemler No.) | : 33 |
| Orange plates | :  |
| Tunnel restriction code (ADR) | : D/E |
| EAC code | : •3YE |

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Transport by sea

| | |
|---------------------------------|------------------|
| Special provisions (IMDG) | : 274 |
| Limited quantities (IMDG) | : 1 L |
| Excepted quantities (IMDG) | : E2 |
| Packing instructions (IMDG) | : P001 |
| IBC packing instructions (IMDG) | : IBC02 |
| Tank instructions (IMDG) | : T7 |
| Tank special provisions (IMDG) | : TP1, TP28, TP8 |
| EmS-No. (Fire) | : F-E |
| EmS-No. (Spillage) | : S-E |
| Stowage category (IMDG) | : B |

Air transport

| | |
|--|--------|
| PCA Excepted quantities (IATA) | : E2 |
| PCA Limited quantities (IATA) | : Y341 |
| PCA limited quantity max net quantity (IATA) | : 1L |
| PCA packing instructions (IATA) | : 353 |
| PCA max net quantity (IATA) | : 5L |
| CAO packing instructions (IATA) | : 364 |
| CAO max net quantity (IATA) | : 60L |
| Special provisions (IATA) | : A3 |
| ERG code (IATA) | : 3H |

Inland waterway transport

| | |
|-----------------------------------|------------------|
| Classification code (ADN) | : F1 |
| Special provisions (ADN) | : 274, 601, 640D |
| Limited quantities (ADN) | : 1 L |
| Excepted quantities (ADN) | : E2 |
| Carriage permitted (ADN) | : T |
| Equipment required (ADN) | : PP, EX, A |
| Ventilation (ADN) | : VE01 |
| Number of blue cones/lights (ADN) | : 1 |

Rail transport

| | |
|---|---------------------|
| Classification code (RID) | : F1 |
| Special provisions (RID) | : 274, 601, 640D |
| Limited quantities (RID) | : 1L |
| Excepted quantities (RID) | : E2 |
| Packing instructions (RID) | : P001, IBC02, R001 |
| Mixed packing provisions (RID) | : MP19 |
| Portable tank and bulk container instructions (RID) | : T7 |
| Portable tank and bulk container special provisions (RID) | : TP1, TP8, TP28 |
| Tank codes for RID tanks (RID) | : LGBF |
| Transport category (RID) | : 2 |
| Colis express (express parcels) (RID) | : CE7 |
| Hazard identification number (RID) | : 33 |

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)

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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)

Detergent Regulation (648/2004)

| Labelling of contents | |
|------------------------|--------|
| Component | % |
| aromatic hydrocarbons | ≥30% |
| aliphatic hydrocarbons | 15-30% |
| non-ionic surfactants | <5% |

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 no 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)

15.1.2. National regulations

France

| Occupational diseases | |
|-----------------------|---|
| Code | Description |
| RG 49 | Skin disorders caused by aliphatic, alicyclic amines or ethanolamines |
| RG 49 BIS | Respiratory disorders caused by aliphatic amines, ethanolamines or isophoronediamine |
| 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 2, Significantly 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 : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are 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 : None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed
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

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Switzerland

Storage class (LK) : LK 3 - Flammable liquids

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| 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. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| 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. |
| 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, Respiratory tract irritation |

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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.