

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

1.1. Product identifier

| | |
|-----------------|--|
| Product form | : Mixture |
| Product name | : 4X Hard Surface Sanitiser Concentrate |
| Product code | : X4X |
| Type of product | : Detergent, Disinfectant-cleaner, Concentrate |
| Product group | : End product |

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 |
| Industrial/Professional use spec | : For professional use only |
| Use of the substance/mixture | : Detergent Disinfectant-cleaner Concentrate |

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Ionic Products Ltd
Unit 26 Blaris Industrial Estate
Altona Road
BT27 5QB Lisburn
UK
T 02892673331
info@ionicproductsltd.com - www.ionicproductsltd.com

1.4. Emergency telephone number

Emergency number : 0289267331 (9am-4pm). In the event of a medical enquiry involving this product, please contact your GP or local A&E dept.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP (SI 2019:720 as amended)

| | |
|---|------|
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 1 | H318 |
| Hazardous to the aquatic environment – Acute Hazard, Category 1 | H400 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 1 | H410 |
| Full text of H- and EUH-statements: see section 16 | |

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to GB CLP (SI 2019:720 as amended)

| | | | |
|----------------------------|---|---|---|
| Hazard pictograms (GB CLP) | : |  |  |
| | | GHS05 | GHS09 |
| Signal word (GB CLP) | : | Danger | |

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| | |
|-----------------------------------|--|
| Contains | : ALKYLDIMETHYLBENZALKONIUM CHLORIDE; Monoethanolamine; Alcohols, C10-16, Ethoxylated; Tetrasodium EDTA |
| Hazard statements (GB CLP) | : H315 - Causes skin irritation. H318 - Causes serious eye damage. H410 - Very toxic to aquatic life with long lasting effects. |
| Precautionary statements (GB CLP) | : P264 - Wash hands, forearms and face thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear eye protection, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor. |

2.3. Other hazards

Results of PBT and vPvB assessment

| Component | |
|--|--|
| Substance(s) not meeting the PBT criteria of UK REACH regulation, in accordance with Annex XIII | ALKYLDIMETHYLBENZALKONIUM CHLORIDE (68424-85-1), Didecyldimethylammonium Chloride (7173-51-5), Diethylene Glycol Monobutyl Ether (112-34-5), Monoethanolamine (141-43-5), Alcohols, C10-16, Ethoxylated (68002-97-1), Tetrasodium EDTA (64-02-8) |
| Substance(s) not meeting the vPvB criteria of UK REACH regulation, in accordance with Annex XIII | ALKYLDIMETHYLBENZALKONIUM CHLORIDE (68424-85-1), Didecyldimethylammonium Chloride (7173-51-5), Diethylene Glycol Monobutyl Ether (112-34-5), Monoethanolamine (141-43-5), Alcohols, C10-16, Ethoxylated (68002-97-1), Tetrasodium EDTA (64-02-8) |

Results of Endocrine Disruptor assessment

| Component | |
|---|---|
| Substance(s) not considered as endocrine disrupting. They are not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, nor identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP | Alcohols, C10-16, Ethoxylated(68002-97-1), Monoethanolamine(141-43-5), ALKYLDIMETHYLBENZALKONIUM CHLORIDE(68424-85-1), Tetrasodium EDTA(64-02-8), Didecyldimethylammonium Chloride (7173-51-5), Diethylene Glycol Monobutyl Ether(112-34-5) |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to GB CLP (SI 2019:720 as amended) |
|---|--|------------|--|
| Alcohols, C10-16, Ethoxylated | CAS-No.: 68002-97-1 EC-No.: 500-182-6 | ≥ 1 – < 10 | Acute Tox. 4 (Oral), H302 (ATE=1700 mg/kg bodyweight) Eye Dam. 1, H318 Aquatic Chronic 3, H412 |
| Monoethanolamine substance with workplace exposure limit(s) | CAS-No.: 141-43-5 EC-No.: 205-483-3 UK Index-No.: 603-030-00-8 | ≥ 1 – < 10 | Acute Tox. 4 (Oral), H302 (ATE=1089 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Corr. 1B, H314 |

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| Name | Product identifier | % | Classification according to GB CLP (SI 2019:720 as amended) |
|--|---|-------------|---|
| ALKYLDIMETHYLBENZALKONIUM CHLORIDE | CAS-No.: 68424-85-1 EC-No.: 939-253-5 | ≥ 1 – < 10 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |
| Tetrasodium EDTA | CAS-No.: 64-02-8 EC-No.: 200-573-9 UK Index-No.: 607-428-00-2 | ≥ 1 – < 10 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Dam. 1, H318 |
| Didecylidimethylammonium Chloride | CAS-No.: 7173-51-5 EC-No.: 230-525-2 UK Index-No.: 612-131-00-6 | ≥ 0.1 – < 1 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411 |
| Diethylene Glycol Monobutyl Ether substance with workplace exposure limit(s) | CAS-No.: 112-34-5 EC-No.: 203-961-6 UK Index-No.: 603-096-00-8 | < 0.1 | Eye Irrit. 2, H319 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits (%) |
|------------------|--|-----------------------------------|
| Monoethanolamine | CAS-No.: 141-43-5 EC-No.: 205-483-3 UK Index-No.: 603-030-00-8 | (5 ≤ C ≤ 100) STOT SE 3; H335 |

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 | : If you feel unwell, seek medical advice. |
| 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. Call a physician immediately. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |
| Self protection of the first-aider | : First aid workers will be equipped with suitable personal protective equipment. |

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

| | |
|-------------------------------------|---------------------------------|
| Symptoms/effects after inhalation | : None under normal conditions. |
| Symptoms/effects after skin contact | : Irritation. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : None under normal conditions. |

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

Treat symptomatically.

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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 : No fire hazard.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

- Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
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

- General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. 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".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling : Ensure good ventilation of the work station. 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

- Technical measures : Keep in a cool, well-ventilated place away from heat.
Storage conditions : Keep cool. Protect from sunlight.

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Packaging materials : Always store product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Diethylene Glycol Monobutyl Ether (112-34-5) | |
|---|---|
| United Kingdom - Occupational Exposure Limits | |
| Local name | 2-(2-Butoxyethoxy)ethanol |
| WEL TWA (OEL TWA) | 67.5 mg/m ³ |
| | 10 ppm |
| WEL STEL (OEL STEL) | 101.2 mg/m ³ |
| | 15 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Monoethanolamine (141-43-5) | |
| United Kingdom - Occupational Exposure Limits | |
| Local name | 2-Aminoethanol |
| WEL TWA (OEL TWA) | 2.5 mg/m ³ |
| | 1 ppm |
| WEL STEL (OEL STEL) | 7.6 mg/m ³ |
| | 3 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) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

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Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses (EN 166)

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves against chemicals (EN 374)

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|------------------------|
| Physical state | : Liquid |
| Colour | : Purple. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| pH | : 9.5 – 11.4 |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flash point | : Not available |
| Flammability | : Not available |
| Explosive limits | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Relative vapour density at 20°C | : Not available |
| Relative density | : 1.01 |
| Density | : Not available |
| Solubility | : Miscible with water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| Viscosity, kinematic | : Not available |
| Viscosity, dynamic | : < 100 cP |
| Explosive properties | : Not available |

9.2. Other information

| | |
|--------------------------|------------------|
| Particle characteristics | : Not applicable |
|--------------------------|------------------|

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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

None under recommended storage and handling conditions (see section 7).

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 toxicological effects

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) : Not classified (Based on available data, the classification criteria are not met)

ALKYLDIMETHYLBENZALKONIUM CHLORIDE (68424-85-1)

| | |
|--------------------|---|
| LD50 dermal rabbit | 3412.5 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity) |
|--------------------|---|

Didecyldimethylammonium Chloride (7173-51-5)

| | |
|-----------------|--|
| LD50 dermal rat | > 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
|-----------------|--|

| | |
|--------------------|---|
| LD50 dermal rabbit | ≈ 3342 mg/kg bodyweight Animal: rabbit, Guideline: other., 95% CL: 0 - 4292 |
|--------------------|---|

Diethylene Glycol Monobutyl Ether (112-34-5)

| | |
|--------------------|--|
| LD50 dermal rabbit | 2764 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 2090 - 3645 |
|--------------------|--|

Monoethanolamine (141-43-5)

| | |
|---------------|--|
| LD50 oral rat | 1089 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
|---------------|--|

Alcohols, C10-16, Ethoxylated (68002-97-1)

| | |
|---------------|------------|
| LD50 oral rat | 1700 mg/kg |
|---------------|------------|

| | |
|-----------------|--------------|
| LD50 dermal rat | > 2000 mg/kg |
|-----------------|--------------|

Skin corrosion/irritation : Causes skin irritation.
pH: 9.5 – 11.4

ALKYLDIMETHYLBENZALKONIUM CHLORIDE (68424-85-1)

| | |
|----|-------|
| pH | 6 – 8 |
|----|-------|

Monoethanolamine (141-43-5)

| | |
|----|---------------------------------------|
| pH | 12.1 Temp.: 20 Concentration: 100 g/L |
|----|---------------------------------------|

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| Alcohols, C10-16, Ethoxylated (68002-97-1) | |
|--|---|
| pH | 5.7 |
| Serious eye damage/irritation | : Causes serious eye damage. pH: 9.5 – 11.4 |
| ALKYLDIMETHYLBENZALKONIUM CHLORIDE (68424-85-1) | |
| pH | 6 – 8 |
| Monoethanolamine (141-43-5) | |
| pH | 12.1 Temp.: 20 Concentration: 100 g/L |
| Alcohols, C10-16, Ethoxylated (68002-97-1) | |
| pH | 5.7 |
| 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) |
| Diethylene Glycol Monobutyl Ether (112-34-5) | |
| NOAEL (animal/male, F0/P) | > 452 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: other: |
| NOAEL (animal/female, F0/P) | > 470 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other: |
| Monoethanolamine (141-43-5) | |
| NOAEL (animal/male, F0/P) | 1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study), Guideline: other.: Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects) |
| NOAEL (animal/female, F0/P) | 300 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study), Guideline: other.: Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met). |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| ALKYLDIMETHYLBENZALKONIUM CHLORIDE (68424-85-1) | |
| NOAEL (subchronic, oral, animal/male, 90 days) | 50 mg/kg bodyweight Animal: dog, Animal sex: male, Guideline: OECD Guideline 409 (Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents) |
| NOAEL (subchronic, oral, animal/female, 90 days) | 45 mg/kg bodyweight Animal: dog, Animal sex: female, Guideline: OECD Guideline 409 (Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents) |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Diethylene Glycol Monobutyl Ether (112-34-5) | |
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |
| NOAEL (dermal, rat/rabbit, 90 days) | < 200 mg/kg bodyweight Animal: rat, Guideline: other.: Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
| Monoethanolamine (141-43-5) | |
| NOAEL (oral, rat, 90 days) | 300 mg/kg bodyweight Animal: rat, Guideline: other.: Guideline: other.: Guideline: other: |
| NOAEC (inhalation, rat, dust/mist/fume, 90 days) | 0.01 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study), Guideline: EU Method B.8 (Subacute Inhalation Toxicity: 28-Day Study) |

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| Tetrasodium EDTA (64-02-8) | |
|--|--|
| LOAEL (oral, rat, 90 days) | 60 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| LOAEC (inhalation, rat, dust/mist/fume, 90 days) | 0.015 mg/l air Animal: rat, Animal sex: female, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |
| NOAEL (oral, rat, 90 days) | 6 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Didecyldimethylammonium Chloride (7173-51-5)

| | |
|----------------------|--|
| Viscosity, kinematic | ≈ 24.5 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)' |
|----------------------|--|

Diethylene Glycol Monobutyl Ether (112-34-5)

| | |
|----------------------|--------------------------|
| Viscosity, kinematic | 6.794 mm ² /s |
|----------------------|--------------------------|

Monoethanolamine (141-43-5)

| | |
|----------------------|---------------------------|
| Viscosity, kinematic | 23.392 mm ² /s |
|----------------------|---------------------------|

Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

ALKYLDIMETHYLBENZALKONIUM CHLORIDE (68424-85-1)

| | |
|----------------------|---|
| LC50 - Fish [1] | 0.515 mg/l Test organisms (species): Lepomis macrochirus |
| EC50 - Crustacea [1] | 0.016 mg/l Test organisms (species): Daphnia magna |
| EC50 96h - Algae [1] | 0.01 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [2] | 0.03 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |

Didecyldimethylammonium Chloride (7173-51-5)

| | |
|----------------------|--|
| LC50 - Fish [1] | ≈ 0.97 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| LC50 - Fish [2] | ≈ 0.49 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | ≈ 0.057 mg/l Test organisms (species): Daphnia magna |
| EC50 - Crustacea [2] | ≈ 0.029 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | ≈ 0.062 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | ≈ 0.047 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | ≈ 0.021 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

Diethylene Glycol Monobutyl Ether (112-34-5)

| | |
|-----------------|---|
| LC50 - Fish [1] | 1300 mg/l Test organisms (species): Lepomis macrochirus |
|-----------------|---|

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| Diethylene Glycol Monobutyl Ether (112-34-5) | |
|--|---|
| EC50 - Crustacea [1] | > 100 mg/l Test organisms (species): Daphnia magna |
| EC50 96h - Algae [1] | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| Monoethanolamine (141-43-5) | |
| LC50 - Fish [1] | 349 mg/l Test organisms (species): Cyprinus carpio |
| EC50 - Crustacea [1] | 27.04 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 2.8 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 2.1 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| NOEC (chronic) | 0.85 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | 1.24 mg/l Test organisms (species): Oryzias latipes Duration: '41 d' |
| Alcohols, C10-16, Ethoxylated (68002-97-1) | |
| LC50 - Fish [1] | 63.704 mg/l |
| Tetrasodium EDTA (64-02-8) | |
| LC50 - Fish [1] | > 116 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | > 114 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 60 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | 50 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | ≥ 25.7 mg/l Test organisms (species): Duration: '35 d' |
| 12.2. Persistence and degradability | |
| 4X Hard Surface Sanitiser Concentrate | |
| Persistence and degradability | Not rapidly degradable |
| ALKYLDIMETHYLBENZALKONIUM CHLORIDE (68424-85-1) | |
| Persistence and degradability | Not rapidly degradable |
| Didecylidimethylammonium Chloride (7173-51-5) | |
| Persistence and degradability | Rapidly degradable |
| Diethylene Glycol Monobutyl Ether (112-34-5) | |
| Persistence and degradability | Not rapidly degradable |
| Monoethanolamine (141-43-5) | |
| Persistence and degradability | Not rapidly degradable |
| Alcohols, C10-16, Ethoxylated (68002-97-1) | |
| Persistence and degradability | Not rapidly degradable |
| Tetrasodium EDTA (64-02-8) | |
| Persistence and degradability | Not rapidly degradable |

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12.3. Bioaccumulative potential

ALKYLDIMETHYLBENZALKONIUM CHLORIDE (68424-85-1)

| | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 3.91 Source: Quantitative Structure Activity Relation |
|---|---|

Alcohols, C10-16, Ethoxylated (68002-97-1)

| | |
|---|-------------|
| Partition coefficient n-octanol/water (Log Kow) | 3.55 – 6.79 |
|---|-------------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

| | |
|---|---|
| ALKYLDIMETHYLBENZALKONIUM CHLORIDE (68424-85-1) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| Didecyldimethylammonium Chloride (7173-51-5) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| Diethylene Glycol Monobutyl Ether (112-34-5) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| Monoethanolamine (141-43-5) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| Alcohols, C10-16, Ethoxylated (68002-97-1) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| Tetrasodium EDTA (64-02-8) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |

12.6. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Regional waste regulation | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations. |
| Additional information | : Do not re-use empty containers. |
| HP Code | : HP8 - "Corrosive:" waste which on application can cause skin corrosion. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|------------------------|---------|---------|---------|---------|
| 14.1. UN number | | | | |
| UN 3082 | UN 3082 | UN 3082 | UN 3082 | UN 3082 |

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| ADR | IMDG | IATA | ADN | RID |
|---|--|--|--|--|
| 14.2. UN proper shipping name | | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDE) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDE) | Environmentally hazardous substance, liquid, n.o.s. (ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDE) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDE) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDE) |
| Transport document description | | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDE), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDE), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDE), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDE), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYL DIMETHYLBENZYL AMMONIUM CHLORIDE), 9, III |
| 14.3. Transport hazard class(es) | | | | |
| 9 | 9 | 9 | 9 | 9 |
| | | | | |
| 14.4. Packing group | | | | |
| III | III | III | III | III |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

| | |
|---|---------------------------|
| Classification code (ADR) | : M6 |
| Special provisions (ADR) | : 274, 335, 375, 601, 650 |
| Limited quantities (ADR) | : 5I |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR) | : PP1 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : T4 |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP29 |
| Tank code (ADR) | : LGBV |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Packages (ADR) | : V12 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13 |
| Hazard identification number (Kemler No.) | : 90 |

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Orange plates : 

Tunnel restriction code (ADR) : -
EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 375, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
Special provisions (IATA) : A97, A158, A197, A215
ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6
Special provisions (ADN) : 274, 335, 375, 601, 650
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6
Special provisions (RID) : 274, 335, 375, 601, 650
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. National regulations

UK REACH Annex XVII (Restriction List)

This product contains no substance(s) listed on UK REACH Annex XVII (Restriction List) equal to or above the level of SDS disclosure

UK REACH Annex XIV (Authorisation List)

This product contains no substance(s) listed on UK REACH Annex XIV (Authorisation List) equal to or above the 0.1% level of disclosure

UK REACH Candidate List (SVHC)

This product contains no substance(s) listed on the UK REACH Candidate List (SVHC).

Detergent Regulation (EC 648/2004)

Contains amongst other ingredients: 5-15% nonionic surfactants, less than 5% cationic surfactants.

GB PIC Regulation (Prior Informed Consent)

This product contains substance(s) listed on the GB PIC List equal to or above the level of SDS disclosure (Didecyldimethylammonium chloride - 7173-51-5, Annex I Part 1)

POP Regulation (Persistent Organic Pollutants)

This product contains no substance(s) listed on the GB POP List equal to or above the level of SDS disclosure

Ozone Regulation (S.I. No. 168 of 2015)

This product contains no substance(s) listed on the GB Ozone Depletion List equal to or above the level of SDS disclosure

Control of Poisons and Explosives Precursors Act

This product contains no substance(s) listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations

Drug Precursors Regulation (EC 273/2004)

This product contains no substance(s) listed on the GB Drug Precursors List equal to or above the level of SDS disclosure

15.1.2. Other Information

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) |
| BS EN | British Standard |
| CAS-No. | Chemical Abstracts Service number |
| COD | Chemical oxygen demand (COD) |

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| Abbreviations and acronyms: | |
|-----------------------------|--|
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| ED | Endocrine disruptor |
| 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 |
| N.O.S. | Not Otherwise Specified |
| 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 |
| vPvB | Very Persistent and Very Bioaccumulative |

| 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 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), 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 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| 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 |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| 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. |

Safety Data Sheet (SDS), UK

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.