

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

Product form : Mixture
Trade name : Mida SAN 325 DA
UFI : 3XD6-5GWA-J30U-EGRA
Product code : ES-BTG-A1211200
Type of product : Disinfectant
Product group : CFH Product

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

Main use category : Industrial use, Professional use
Industrial/Professional use spec : For professional use only
Industrial
Use of the substance/mixture : Biocide
Detergent
Function or use category : Biocide, TP4, TP2

1.2.2. Uses advised against

No additional information available

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

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1.4. Emergency telephone number

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|----------------|------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH | 0344 892 0111 | Only for healthcare professionals |

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Corrosive to metals, Category 1 H290

Skin corrosion/irritation, Category 1, Sub-Category 1C H314

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

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

CLP Signal word

: Danger

Contains

: Lactic acid; Dodecylbenzenesulfonic acid; Laurylethoxy(3EO)sulphate, sodium salt; Fatty alcohol ethoxylate

Hazard statements (CLP)

: H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)

: P302+P352 - IF ON SKIN: Wash with plenty of water.
P280 - Wear protective clothing, eye protection, face protection.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P310 - Immediately call a POISON CENTER/doctor.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

EUH-statements

: EUH071 - Corrosive to the respiratory tract.

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

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lactic acid | CAS-no: 79-33-4 Einecs nr: 201-196-2 REACH-no: 01-2119474164-39 | 10 – 30 | Skin Corr. 1C, H314 Eye Dam. 1, H318 EUH071 |
| sulphamic acid | CAS-no: 5329-14-6 Einecs nr: 226-218-8 EG annex nr: 016-026-00-0 REACH-no: 01-2119488633-28 | 5 – 10 | Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 3, H412 |
| 2-butoxyethanol substance with national workplace exposure limit(s) (BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, RS, CH) | CAS-no: 111-76-2 Einecs nr: 203-905-0 EG annex nr: 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:vapour), H331 (ATE=3 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| Dodecylbenzenesulfonic acid | CAS-no: 85536-14-7 Einecs nr: 287-494-3 REACH-no: 01-2119490234-40 | 3 – 5 | Acute Tox. 4 (Oral), H302 (ATE=1470 mg/kg bodyweight) Skin Corr. 1, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 |
| Laurylethoxy(3EO)sulphate, sodium salt | CAS-no: 68891-38-3 Einecs nr: 500-234-8 REACH-no: 01-2119488639-16 | 3 – 5 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------------------------|-----------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------|
| Fatty alcohol ethoxylate | CAS-no: 160875-66-1 Einecs nr: 605-233-7 REACH-no: Exempted (polymer) | 3 – 5 | Acute Tox. 4 (Oral), H302 (ATE=300 mg/kg bodyweight) Eye Dam. 1, H318 |
| Amines, C12-14, alkyltrimethyl, N-oxides | CAS-no: 308062-28-4 Einecs nr: 931-292-6 REACH-no: 01-2119490061-47 | < 1 | Acute Tox. 4 (Oral), H302 (ATE=1064 mg/kg bodyweight) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits (%) |
|---------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Lactic acid | CAS-no: 79-33-4 Einecs nr: 201-196-2 REACH-no: 01-2119474164-39 | (1 ≤ C < 3) Eye Irrit. 2, H319 (3 ≤ C ≤ 100) Eye Dam. 1, H318 (5 ≤ C ≤ 100) Skin Corr. 1C, H314 (10 < C ≤ 100) EUH071 |
| Laurylthoxy(3EO)sulphate, sodium salt | CAS-no: 68891-38-3 Einecs nr: 500-234-8 REACH-no: 01-2119488639-16 | (5 ≤ C < 10) Eye Irrit. 2, H319 (10 ≤ C < 100) Eye Dam. 1, H318 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

: In case of doubt or persistent symptoms, consult always a physician. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation

: Take victim to fresh air, in a quiet place and if necessary take medical advice. Allow affected person to breathe fresh air. Allow the victim to rest. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

Skin contact

: Remove all contaminated clothing and footwear. Wash off with plenty of water. In case of faintness or symptoms of skin irritation appear, take medical advice. Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.

Eye contact

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion

: Rinse mouth out with water. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Rinse mouth.

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

Symptoms/effects

: Causes severe skin burns and eye damage.

Acute effects inhalation

: Presents no particular risk when handled in accordance with good occupational hygiene practice.

Acute effects skin

: To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

Acute effects eyes

: Causes serious eye damage.

Acute effects oral route

: Presents no particular risk when handled in accordance with good occupational hygiene practice.

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

: All extinguishing agents can be used. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media

: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Explosion hazard

: Not applicable.

5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Stop leak without risks if possible. Do not contaminate ground and surface water. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb spilled material with sand or earth. Shovel or sweep up and put in a closed container for disposal. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Absorb spillage to prevent material damage.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : May be corrosive to metals.

Precautions for safe handling : Avoid contact with skin and eyes. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe vapours.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep only in original container. Store tightly closed in a dry and cool place. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Maximum storage period : ≈ 2 year

Storage temperature : < 40 °C

Storage area : Keep only in the original container. Keep out of direct sunlight. Protect against frost.

Packaging materials : HDPE.

7.3. Specific end use(s)

PT4 - Biocidal products used for the disinfection of equipment, containers, consumption utensils, surfaces or pipework associated with the production, transport, storage or consumption of food or feed (including drinking water) for humans and animals. PT2 - Biocidal products used for the disinfection of surfaces, materials, equipment and furniture which are not used for direct contact with food or feeding stuffs. Usage areas include, inter alia, swimming pools, aquariums, bathing and other waters; air conditioning systems; and walls and floors in private, public and industrial areas and in other areas for professional activities. Disinfectant. BPR Product Type 4: Food and feed area (Disinfectants). BPR Product Type 2: Disinfectants and algacides not intended for direct application to humans or animals (Disinfectants).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| 2-butoxyethanol (111-76-2) | |
|----------------------------------------|----------------------------------------------------------|
| Ireland - Occupational Exposure Limits | |
| Local name | 2-Butoxyethanol (EGBE) [Ethylene glycol monobutyl ether] |
| OEL TWA | 98 mg/m ³ |
| | 20 ppm |
| OEL STEL | 246 mg/m ³ |
| | 50 ppm |

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| 2-butoxyethanol (111-76-2) | |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remark | IOELV (Indicative Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible) |
| Regulatory reference | Chemical Agents Code of Practice 2024 |
| United Kingdom - Occupational Exposure Limits | |
| Local name | 2-Butoxyethanol |
| WEL TWA (OEL TWA) | 123 mg/m ³ |
| | 25 ppm |
| WEL STEL (OEL STEL) | 246 mg/m ³ |
| | 50 ppm |
| Remark | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), BMGV (Biological monitoring guidance values are listed in Table 2) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| United Kingdom - Biological limit values | |
| Local name | 2-Butoxyethanol |
| BMGV | 240 mmol/mol Creatinine Parameter: butoxyacetic acid - Medium: urine - Sampling time: Post shift |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or face shield. Safety glasses with side-shields (EN 166)

8.2.2.2. Skin protection

Protective equipment:

Wear suitable protective clothing minimum (EN 13034) Type 6 equipment. Wear suitable protective clothing

Hand protection:

Chemical resistant PVC gloves (to European standard EN 374 or equivalent). Wear protective gloves.

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8.2.2.3. Respiratory protection

Respiratory protection:

No personal breathing protective equipment is normally required. Provide adequate ventilation. Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical state | : Liquid |
| Colour | : Colourless. |
| Physical state/form | : Liquid. |
| Odour | : Odourless. |
| Odour threshold | : Not available |
| Melting point/range | : Not determined as it is not relevant for the characterization of the product |
| Freezing point | : Not determined as it is not relevant for the characterization of the product |
| Boiling point/Boiling range | : $\approx 103\text{ }^{\circ}\text{C}$ |
| Flammability | : Not determined as it is not relevant for the characterization of the product Non flammable. |
| Lower explosion limit | : Constituents do not contain chemical groups associated with explosivity |
| Upper explosion limit | : Constituents do not contain chemical groups associated with explosivity |
| Flash point | : $\approx 107\text{ }^{\circ}\text{C}$ |
| Autoignition temperature | : Determination of the auto-ignition temperature is only relevant for pyrophoric liquids, however the mixture is not a pyrophoric liquid so the test is not required. |
| Decomposition temperature | : Only applies to self-reactive substances and mixtures, organic peroxides, and other substances and mixtures that may decompose. |
| pH | : $1.7 - 2.4 \pm 0,5$ (1%) |
| Viscosity, kinematic | : $40 - 60\text{ mm}^2/\text{s}$ |
| Solubility | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Does not apply to inorganic and ionic liquids and does not generally apply to mixtures. |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : 1.08 g/ml |
| 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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

The product is stable at normal handling and storage conditions. Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Never mix with other materials. Strong acids. Strong bases. metals. May be corrosive to metals.

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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information

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

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

| Lactic acid (79-33-4) | |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------|
| LD50 oral | 3730 mg/kg bodyweight |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Guideline: EPA OPP 81-2 (Acute Dermal Toxicity) |
| LD50 dermal | > 2000 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 7.94 mg/l air (OECD 403 method) |
| LC50 Inhalation - Rat (Dust/Mist) | > 7940 mg/l |
| sulphamic acid (5329-14-6) | |
| LD50 oral rat | 2140 mg/kg bodyweight Animal: rat, Animal sex: female, Remarks on results: other: |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| 2-butoxyethanol (111-76-2) | |
| LD50 oral rat | 1200 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 Inhalation - Rat [ppm] | 4500 |
| LC50 Inhalation - Rat (Dust/Mist) | 1.5 mg/l |
| LC50 Inhalation - Rat (Vapours) | 3 mg/l/4h |
| Dodecylbenzenesulfonic acid (85536-14-7) | |
| LD50 oral rat | 1470 mg/kg bodyweight (OECD Guideline 401) |
| LD50 dermal rat | > 2000 mg/kg bodyweight |
| Laurylethoxy(3EO)sulphate, sodium salt (68891-38-3) | |
| LD50 oral rat | 4100 ml/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LD50 dermal | > 2000 mg/kg bodyweight |
| Fatty alcohol ethoxylate (160875-66-1) | |
| LD50 oral rat | > 300 (300 – 2000) mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| Amines, C12-14, alkyldimethyl, N-oxides (308062-28-4) | |
| LD50 oral rat | 1064 mg/kg |
| Skin corrosion/irritation | : Causes severe skin burns. pH: 1.7 – 2.4 ± 0,5 (1%) |
| Dodecylbenzenesulfonic acid (85536-14-7) | |
| pH | 1 (50 g/l 20°C) |
| Serious eye damage/irritation | : Assumed to cause serious eye damage pH: 1.7 – 2.4 ± 0,5 (1%) |
| Dodecylbenzenesulfonic acid (85536-14-7) | |
| pH | 1 (50 g/l 20°C) |
| Respiratory or skin sensitisation | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |

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| | |
|------------------------|--------------------------------------------------------------------|
| Germ cell mutagenicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |

2-butoxyethanol (111-76-2)

| | |
|------------------------|--------------------------------------------------------------------|
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |

sulphamic acid (5329-14-6)

| | |
|---------------------------|--------------------------------------------------------------------------------------------------------------------|
| NOAEL (animal/female, F1) | 500 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects) |
| STOT-single exposure | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |

Laurylethoxy(3EO)sulphate, sodium salt (68891-38-3)

| | |
|------------------------|--------------------------------------------------------------------|
| NOAEL (oral, rat) | > 300 mg/kg bodyweight |
| STOT-repeated exposure | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |

Laurylethoxy(3EO)sulphate, sodium salt (68891-38-3)

| | |
|----------------------------|--------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days) | > 225 mg/kg bodyweight/day |
| Aspiration hazard | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |

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| | |
|----------------------|---------------|
| Viscosity, kinematic | 40 – 60 mm²/s |
|----------------------|---------------|

Dodecylbenzenesulfonic acid (85536-14-7)

| | |
|----------------------|----------------|
| Viscosity, kinematic | 1635.688 mm²/s |
|----------------------|----------------|

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

| | |
|-----------------------------------------------------|--------------------------------------------------------------------|
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met |
|-----------------------------------------------------|--------------------------------------------------------------------|

SECTION 12: Ecological information

12.1. Toxicity

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

Lactic acid (79-33-4)

| | |
|------------------------------------|-------------------------------------|
| LC50 - Fish [1] | 195 mg/l |
| EC50 - Crustacea [1] | 130 mg/l Daphnia magna (Water flea) |
| EC50 - Other aquatic organisms [1] | 130 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | > 2800 mg/l |

sulphamic acid (5329-14-6)

| | |
|----------------------|----------------------------------------------------------------------------------------------------|
| LC50 - Fish [1] | 70.3 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Crustacea [1] | 71.6 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 48 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

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| sulphamic acid (5329-14-6) | |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| EC50 72h - Algae [2] | 33.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| LOEC (chronic) | 34 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 19 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | ≥ 60 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d' |
| 2-butoxyethanol (111-76-2) | |
| LC50 - Fish [1] | 1474 mg/l |
| EC50 - Crustacea [1] | 1550 mg/l Daphnia magna |
| EC50 72h - Algae [1] | 1840 mg/l |
| NOEC (chronic) | 100 mg/l |
| NOEC chronic crustacea | 100 mg/l Daphnia magna |
| NOEC chronic algae | 130 mg/l |
| Dodecylbenzenesulfonic acid (85536-14-7) | |
| LC50 - Fish [1] | 1.67 mg/l (Lepomis macrochirus - EPA 1975) |
| EC50 - Crustacea [1] | 2.9 mg/l (Daphnia magna - OECD 202) |
| ErC50 algae | 235 mg/l (Pseodokirchneriella subcapitata) |
| NOEC (chronic) | 1.18 mg/l |
| NOEC chronic fish | 1 mg/l (NOEC (28 d) Lepomis macrochirus) |
| NOEC chronic algae | > 4 mg/l |
| Laurylethoxy(3EO)sulphate, sodium salt (68891-38-3) | |
| LC50 - Fish [1] | > 1 mg/l |
| EC50 - Crustacea [1] | 7.2 mg/l |
| EC50 72h - Algae [1] | 27.7 mg/l |
| NOEC chronic crustacea | 0.27 mg/l |
| Fatty alcohol ethoxylate (160875-66-1) | |
| EC50 - Crustacea [1] | > 10 mg/l |
| ErC50 algae | > 10 mg/l |
| NOEC chronic fish | > 1 mg/l |
| Amines, C12-14, alkyldimethyl, N-oxides (308062-28-4) | |
| LC50 - Fish [1] | 2.67 mg/l |
| EC50 - Crustacea [1] | 3.1 mg/l |
| ErC50 algae | 0.143 mg/l |
| NOEC chronic algae | ≥ 0.0191 mg/l |
| 12.2. Persistence and degradability | |
| Mida SAN 325 DA | |
| Persistence and degradability | When added in small quantities, there are no expected effects on the working of the biological water cleaning station. Not established. |
| Lactic acid (79-33-4) | |
| Persistence and degradability | Rapidly degradable |
| sulphamic acid (5329-14-6) | |
| Persistence and degradability | Not rapidly degradable |
| 2-butoxyethanol (111-76-2) | |
| Persistence and degradability | Biodegradable. |

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| Dodecylbenzenesulfonic acid (85536-14-7) | |
|-------------------------------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | > 70 % (OECD 301 A) |
| Laurylthoxy(3EO)sulphate, sodium salt (68891-38-3) | |
| Persistence and degradability | Readily biodegradable. |
| Fatty alcohol ethoxylate (160875-66-1) | |
| Persistence and degradability | Biodegradable. |
| Amines, C12-14, alkyldimethyl, N-oxides (308062-28-4) | |
| Persistence and degradability | Rapidly degradable |

12.3. Bioaccumulative potential

| Mida SAN 325 DA | |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Kow) | Does not apply to inorganic and ionic liquids and does not generally apply to mixtures. |
| Bioaccumulative potential | Not established. |
| Lactic acid (79-33-4) | |
| Log Pow | -0.62 |
| 2-butoxyethanol (111-76-2) | |
| Log Pow | 0.8 |
| Dodecylbenzenesulfonic acid (85536-14-7) | |
| Log Pow | 2 |
| Fatty alcohol ethoxylate (160875-66-1) | |
| Bioaccumulative potential | No bioaccumulation. |
| Amines, C12-14, alkyldimethyl, N-oxides (308062-28-4) | |
| Partition coefficient n-octanol/water (Log Kow) | > 2.7 |

12.4. Mobility in soil

| Dodecylbenzenesulfonic acid (85536-14-7) | |
|------------------------------------------------------------|------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2500 |

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Waste / unused products | : Collect all waste in suitable and labelled containers and dispose according to local legislation. Avoid release to the environment. |
| European List of Waste (LoW, EC 2000/532) | : 20 01 29* - detergents containing dangerous substances |
| HP Code | : HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure. HP8 - "Corrosive:" waste which on application can cause skin corrosion. |

SECTION 14: Transport information




In accordance with ADR / IMDG / IATA

| ADR | IMDG | IATA |
|------------------------------|---------|---------|
| 14.1. UN number or ID number | | |
| UN 2967 | UN 2967 | UN 2967 |

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| ADR | IMDG | IATA |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 14.2. UN proper shipping name | | |
| SULPHAMIC ACID | SULPHAMIC ACID (Dodecylbenzenesulfonic acid) | Sulphamic acid (Dodecylbenzenesulfonic acid) |
| Transport document description | | |
| UN 2967 SULPHAMIC ACID, 8, III, (E) | UN 2967 SULPHAMIC ACID (Dodecylbenzenesulfonic acid), 8, III | UN 2967 Sulphamic acid (Dodecylbenzenesulfonic acid), 8, III |
| 14.3. Transport hazard class(es) | | |
| 8 | 8 | 8 |
|  |  |  |
| 14.4. Packing group | | |
| III | III | III |
| 14.5. Environmental hazards | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No |
| No supplementary information available | | |

14.6. Special precautions for user

Overland transport

| | |
|-----------------------------------------------------------|-------------------------------------------|
| Classification code (ADR) | : C2 |
| Limited quantities (ADR) | : 5kg |
| Packing instructions (ADR) | : P002, IBC08, LP02, R001 |
| Special packing provisions (ADR) | : B3 |
| Mixed packing provisions (ADR) | : MP10 |
| Portable tank and bulk container instructions (ADR) | : T1 |
| Portable tank and bulk container special provisions (ADR) | : TP33 |
| Tank code (ADR) | : SGAV |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Bulk (ADR) | : VC1, VC2, AP7 |
| Hazard identification number (Kemler No.) | : 80 |
| Orange plates | : <div><div>80</div><div>2967</div></div> |

| | |
|-------------|------|
| Tunnel code | : E |
| EAC code | : 2X |

Transport by sea

| | |
|---------------------------------|--------------|
| Limited quantities (IMDG) | : 5 kg |
| Packing instructions (IMDG) | : P002, LP02 |
| IBC packing instructions (IMDG) | : IBC08 |
| IBC special provisions (IMDG) | : B3 |

Air transport

| | |
|----------------------------------------------|--------|
| PCA Limited quantities (IATA) | : Y845 |
| PCA limited quantity max net quantity (IATA) | : 5kg |
| PCA packing instructions (IATA) | : 860 |
| PCA max net quantity (IATA) | : 25kg |
| CAO packing instructions (IATA) | : 864 |

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CAO max net quantity (IATA) : 100kg
Special provisions (IATA) : A803

14.7. Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

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

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

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

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

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

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

Dual-Use Regulation (428/2009)
Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|--------------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| | Supersedes | Modified | |
| | Review date | Modified | |
| 2.2 | Precautionary statements (CLP) | Modified | |
| 9.1 | Flammability (solid, gas) | Added | |
| 9.1 | Log Kow | Added | |
| 9.1 | Freezing point | Added | |
| 9.1 | Melting point/range | Added | |
| 9.1 | Decomposition temperature | Added | |
| 9.1 | Autoignition temperature | Added | |
| 9.1 | pH | Modified | |
| 9.1 | Density | Added | |
| 9.1 | Relative density | Removed | |
| 9.1 | Particle size | Added | |
| 9.1 | Upper explosive limit (UEL) | Added | |

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| Indication of changes | | | |
|-----------------------|-----------------------------|--------|----------|
| Section | Changed item | Change | Comments |
| 9.1 | Lower explosive limit (LEL) | Added | |
| 12.3 | Log Kow | Added | |

| Abbreviations and acronyms: | |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| ErC50 (algae) | ErC50 (algae) |
| 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 |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| vPvB | Very Persistent and Very Bioaccumulative |

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: It is recommended to pass the information from this safety data sheet in an appropriate form to the users. The information is currently to the best of our knowledge and believed to be accurate and reliable. This information relates to the specifically named product and may not be valid in combination with other products.
This safety data sheet is in compliance with 1907/2006/EEC. It is the responsibility of the user to take all necessary measures to meet local required laws and regulations. The producer is not responsible for any damage and loss due to the use of information mentioned in this safety data sheet. None.

| Full text of H- and EUH-statements: | |
|-------------------------------------|-------------------------------------------------------------------|
| Acute Tox. 3 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 3 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute 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 |
| EUH071 | Corrosive to the respiratory tract. |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--------------------------------------------------------|
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Corr. 1 | Skin corrosion/irritation, Category 1 |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---------------------------------------------------------------------------------------------------------------------------|------|------------------|
| Met. Corr. 1 | H290 | |
| Skin Corr. 1C | H314 | Expert judgement |

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.