

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

Product form : Mixture
 Product name : MIDA SAN 333 HN
 Product code : ES-BTG-A1111040
 Type of product : Biocidal products (e.g. Disinfectants, pest control)
 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 : Industrial
 For professional use only
 Use of the substance/mixture : Biocide
 Function or use category : Pesticides, non-agricultural (Biocides)

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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Distributor

Christeyns Technologies Ltd.
 Mazars, Block 3, Harcourt Centre, Harcourt Road
 IE- 2 Dublin
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1.4. Emergency telephone number

Country	Official advisory body	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]

Acute toxicity (oral), Category 4 H302
 Acute toxicity (inhalation:dust,mist) Category 4 H332
 Skin corrosion/irritation, Category 1, Sub-Category 1B H314
 Respiratory sensitisation, Category 1 H334
 Skin sensitisation, Category 1 H317
 Hazardous to the aquatic environment – Chronic Hazard, Category 1 H410
 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)



CLP Signal word

: Danger

Contains

: glutaraldehyde; Ethylenediaminetetraacetic acid, tetrasodium salt solution

Hazard statements (CLP)

: H302+H332 - Harmful if swallowed or if inhaled.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P280 - Wear protective clothing, eye protection, face protection, protective gloves.
P303+P361+P353+P310 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 POISON CENTER/doctor.
P342+P311 - If experiencing respiratory symptoms: Call doctor, a POISON CENTER.
P260 - Do not breathe dust, fume, gas, mist, spray, vapours.
P271 - Use only outdoors or in a well-ventilated area.
P284 - In case of inadequate ventilation wear respiratory protection.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P391 - Collect spillage.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
P363 - Wash contaminated clothing before reuse.

EUH-statements

: EUH071 - Corrosive to the respiratory tract.

2.3. Other hazards

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

Component	
glutaraldehyde (111-30-8)	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
Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)	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 %

Component	
glutaraldehyde(111-30-8)	The substance is not 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

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]
Butoxy diglycol	CAS-no: 112-34-5 Einecs nr: 203-961-6 EG annex nr: 603-096-00-8 REACH-no: 01-2119475104-44	10 – 30	Eye Irrit. 2, H319
glutaraldehyde substance listed as REACH Candidate (Glutaral) substance with national workplace exposure limit(s) (AT, BE, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, LT, LV, PL, PT, SE, SI, SK, IS, NO, CH)	CAS-no: 111-30-8 Einecs nr: 203-856-5 EG annex nr: 605-022-00-X REACH-no: 01-2119455549-26	≥ 10 – < 30	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Resp. Sens. 1, H334 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Didecyltrimethylammonium Chloride (Active substance (Biocide))	CAS-no: 7173-51-5 Einecs nr: 230-525-2 EG annex nr: 612-131-00-6 REACH-no: 01-2119945987-15	5 – 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411
Lactic acid	CAS-no: 79-33-4 Einecs nr: 201-196-2 REACH-no: 01-2119474164-39	1 – 3	Skin Corr. 1C, H314 Eye Dam. 1, H318 EUH071
Ethylenediaminetetraacetic acid, tetrasodium salt solution	CAS-no: 64-02-8 Einecs nr: 200-573-9 EG annex nr: 607-428-00-2 REACH-no: 01-2119486762-27	1 – 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:gas), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 STOT RE 2, H373

Specific concentration limits:

Name	Product identifier	Specific concentration limits
glutaraldehyde	CAS-no: 111-30-8 Einecs nr: 203-856-5 EG annex nr: 605-022-00-X REACH-no: 01-2119455549-26	(0.5 ≤C < 100) Skin Sens. 1, H317 (0.5 ≤C < 5) STOT SE 3, H335 (0.5 ≤C < 2) Eye Irrit. 2, H319 (0.5 ≤C < 10) Skin Irrit. 2, H315 (2 ≤C < 10) Eye Dam. 1, H318 (5 ≤C < 100) EUH071 (10 ≤C < 100) Skin Corr. 1B, H314
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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation

: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Immediately call a POISON CENTER/doctor. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Seek medical advice. Call a POISON CENTER/doctor. Specific treatment is urgent (see supplemental first aid instruction on this label).

Skin contact

: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Wash with plenty of water/.... If skin irritation or rash occurs: Seek medical advice. Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse.

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. Specific treatment (see supplemental first aid instruction on this label).

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Ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label).

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

Symptoms/effects : Causes severe skin burns and eye damage.

Acute effects inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. Corrosive to the respiratory tract.

Acute effects eyes : Causes serious eye damage.

Acute effects oral route : Swallowing a small quantity of this material will result in serious health hazard.

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 : 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

No additional information available

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.

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

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : 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 : 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. Use only outdoors or in a well-ventilated area. Avoid breathing fume, gas, mist, spray, vapours. Do not breathe Aerosol, Mist, Spray, fume, gas, vapours.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Packaging materials : Store in corrosive resistant container with a resistant inner liner. Do not store in corrodable metal.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

glutaraldehyde (111-30-8)	
Ireland - Occupational Exposure Limits	
Local name	Glutaraldehyde
OEL STEL	0.2 mg/m ³
OEL STEL [ppm]	0.05 ppm
Remark	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))
Regulatory reference	Chemical Agents Code of Practice 2021
United Kingdom - Occupational Exposure Limits	
Local name	Glutaraldehyde
WEL TWA (OEL TWA) [1]	0.2 mg/m ³
WEL TWA (OEL TWA) [2]	0.05 ppm
WEL STEL (OEL STEL)	0.2 mg/m ³
WEL STEL (OEL STEL) [ppm]	0.05 ppm
Remark	Sen (Capable of causing occupational asthma. See paragraphs 53–56)
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

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Hand protection:

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

8.2.2.3. Respiratory protection

Respiratory protection:

Provide adequate ventilation. Wear a full face respirator conforming to EN136 with Type A/P2 filter or better

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	: Characteristic.
Odour threshold	: Not available
Melting point/range	: Not available
Freezing point	: Not available
Boiling point/Boiling range	: Not available
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Autoignition temperature	: Not available
Decomposition temperature	: Not available
pH	: ≈ 4 (100%)
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: ≈ 1.02 g/ml (20°C)
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

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

Strong acids. Strong bases. metals. May be corrosive to metals.

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10.6. Hazardous decomposition products

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) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Harmful if inhaled.

MIDA SAN 333 HN	
ATE CLP (oral)	970.597 mg/kg bodyweight
ATE CLP (dust,mist)	4.46 mg/l/4h
Didecyldimethylammonium Chloride (7173-51-5)	
LD50 oral	329 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	70 mg/l
ATE CLP (oral)	329 mg/kg bodyweight
ATE CLP (dust,mist)	70 mg/l/4h
glutaraldehyde (111-30-8)	
LD50 oral rat	158 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	0.48 mg/l/4h
ATE CLP (oral)	158 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	0.48 mg/l/4h
ATE CLP (dust,mist)	0.48 mg/l/4h
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
ATE CLP (oral)	3730 mg/kg bodyweight
Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)	
LD50 oral	1780 mg/kg
LC50 Inhalation - Rat	1 – 5 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	1 – 5 mg/l/4h
ATE CLP (oral)	1780 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	1 mg/l/4h
ATE CLP (dust,mist)	1 mg/l/4h
Butoxy diglycol (112-34-5)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation : Causes severe skin burns.
pH: ≈ 4 (100%)

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Didecyldimethylammonium Chloride (7173-51-5)

pH 6.5 – 8

Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)

pH 11 – 12 , 1%

Serious eye damage/irritation : Assumed to cause serious eye damage
pH: \approx 4 (100%)

Didecyldimethylammonium Chloride (7173-51-5)

pH 6.5 – 8

Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)

pH 11 – 12 , 1%

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

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

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified.

Additional information : Corrosive to the respiratory tract.

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)

LOAEL (oral, rat, 90 days) 1780 mg/kg bodyweight/day

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Didecyldimethylammonium Chloride (7173-51-5)

Viscosity, kinematic \approx 24.5 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in 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 : Harmful if swallowed,Harmful if inhaled.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life. 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) : Very toxic to aquatic life with long lasting effects.

Not rapidly degradable

Didecyldimethylammonium Chloride (7173-51-5)

LC50 - Fish [1] 0.49 mg/l (Brachydanio rerio) (OECD 203)

LC50 - Fish [2] \approx 0.49 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)

EC50 - Crustacea [1] 0.03 mg/l (Daphnia magna) (OECD 202)

EC50 - Crustacea [2] \approx 0.029 mg/l Test organisms (species): Daphnia magna

EC50 - Other aquatic organisms [1] 0.057 mg/l waterflea

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Didecyldimethylammonium Chloride (7173-51-5)	
EC50 - Other aquatic organisms [2]	0.156 mg/l
EC50 72h - Algae [1]	≈ 0.062 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	0.06 mg/l (Selenastrum capricornutum) (OECD 201)
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'
NOEC chronic crustacea	0.021 mg/l (Daphnia magna) (OECD 211)
NOEC chronic algae	0.013 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
glutaraldehyde (111-30-8)	
LC50 - Fish [1]	9.4 mg/l
EC50 - Crustacea [1]	5.75 mg/l
EC50 72h - Algae [1]	0.6 mg/l
NOEC chronic fish	1.6 mg/l
NOEC chronic crustacea	2.5 mg/l
NOEC chronic algae	0.025 mg/l
TLM - Fish [1]	1.6 mg/l
TLM - Other aquatic organisms [1]	2.5 mg/l
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
Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 500 mg/l
EC50 - Other aquatic organisms [1]	140 mg/l
EC50 72h - Algae [1]	> 100 mg/l
ErC50 algae	> 300 mg/l
NOEC chronic fish	≥ 25.7 mg/l
Butoxy diglycol (112-34-5)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l
12.2. Persistence and degradability	
MIDA SAN 333 HN	
Persistence and degradability	May cause long-term adverse effects in the environment.
glutaraldehyde (111-30-8)	
Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential	
MIDA SAN 333 HN	
Bioaccumulative potential	Not established.
Didecyldimethylammonium Chloride (7173-51-5)	
Log Pow	0.4

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glutaraldehyde (111-30-8)	
Bioaccumulative potential	No bioaccumulation.
Lactic acid (79-33-4)	
Log Pow	-0.62
Butoxy diglycol (112-34-5)	
Partition coefficient n-octanol/water (Log Kow)	0.56

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
glutaraldehyde (111-30-8)	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
Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)	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

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. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Waste / unused products




: Avoid release to the environment.

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.
HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.
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

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 1760	UN 1760	UN 1760
14.2. UN proper shipping name		
CORROSIVE LIQUID, N.O.S. (CONTAINS : glutaraldehyde ; Didecyldimethylammonium Chloride)	CORROSIVE LIQUID, N.O.S. (CONTAINS : glutaraldehyde ; Didecyldimethylammonium Chloride)	Corrosive liquid, n.o.s. (CONTAINS : glutaraldehyde ; Didecyldimethylammonium Chloride)
Transport document description		
UN 1760 CORROSIVE LIQUID, N.O.S. (CONTAINS : glutaraldehyde ; Didecyldimethylammonium Chloride), 8, II, (E), ENVIRONMENTALLY HAZARDOUS	UN 1760 CORROSIVE LIQUID, N.O.S. (CONTAINS : glutaraldehyde ; Didecyldimethylammonium Chloride), 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1760 Corrosive liquid, n.o.s. (CONTAINS : glutaraldehyde ; Didecyldimethylammonium Chloride), 8, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)		
8	8	8
		

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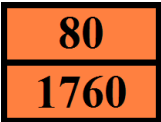
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ADR	IMDG	IATA
14.4. Packing group		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available		

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C9
Special provisions (ADR) : 274
Limited quantities (ADR) : 1I
Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions (ADR) : T11
Portable tank and bulk container special provisions (ADR) : TP2, TP27
Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80
Orange plates : 

Tunnel code : E
EAC code : 2X

Transport by sea

Special provisions (IMDG) : 274
Limited quantities (IMDG) : 1 L
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02

Air transport

PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity (IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provisions (IATA) : A3, A803

14.7. Maritime transport in bulk according to IMO instruments

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. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Lactic acid ; glutaraldehyde	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	glutaraldehyde	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations $\geq 0.1\%$ or SCL: Glutaral (EC 203-856-5, CAS 111-30-8)

PIC Regulation (Prior Informed Consent)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals):
Didecyldimethylammonium chloride (7173-51-5)

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)

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
	Review date	Modified	
2.2	Precautionary statements (CLP)	Modified	

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 : None.

Full text of H- and EUH-statements:	
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4

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Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) 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 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
EUH071	Corrosive to the respiratory tract.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties 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.
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Acute Tox. 4 (Oral)	H302	Calculation method
Acute Tox. 4 (Inhalation:dust,mist)	H332	Calculation method
Skin Corr. 1B	H314	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 1	H410	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.