SAFETY DATA SHEET
According to Regulation (EC) No.1907/2006
Disicide® Concentrate

Valid from 2026-01-30 Version 3.0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: Disicide® Concentrate
500 ml Art.nr. 035040 2000 ml Art.nr. 035041
UFI Code: 6M00-V0S9-D009-7Q8J

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

Use of the Substance/Mixture: Biocides

Uses advised against: At this moment we have not identified any uses advised against

1.3 Details of the supplier of the safety data sheet

Manufacturer
Terapima Sweden AB
Smidesvägen 13
24534 Staffanstorp, Sweden
+46 70 513 05 05
info@disicide.com

UK Responsible Person
Terapima UK Ltd
Ground Floor 67 James Street
Brighton, East Sussex BN2 1PJ
United Kingdom
info@disicide.com
Tel: +46 70 513 05 05

1.4 Emergency telephone number

Please call your local emergency number
Iceland: eitur@landspitali.is and phone number (+354 543 2222)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

Hazard class	Hazard category	Target Organs	Hazard statements
Skin corrosion	Category 1B	---	H314
Serious eye damage	Category 1	---	H318
Acute aquatic toxicity	Category 1	---	H400
Long-term (chronic) aquatic hazard	Category 3	---	H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

Human Health Chronic exposure damages the brain and the central nervous system.
Inhalation may cause the following effects: May cause respiratory irritation.
Skin contact may cause the following effects: Burns with pain, redness and wounds.
Eye contact may cause the following effects: Splashes in the eyes may cause painful burns, which may result in permanent damage to the eyes.

Physical and chemical hazards Strong heating may produce combustible vapours which can form explosive mixture with air. To be stored as flammable liquid.

Potential environmental effects Very toxic to aquatic life with long lasting effects.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:



Signal word: Danger

Hazard statements: H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazardous components which must be listed on the label:
- 2-aminoethanol
- didecyldimethylammonium chloride
- Potassium carbonate
- propan-2-ol

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008) Hazard class / Hazard category	Hazard statements
2-aminoethanol			
Index-No: 603-030-00-8	>= 5 - < 10	Acute Tox.4	H332
CAS-No: 141-43-5		Acute Tox.4	H312
EC-No: 205-483-3		Acute Tox.4	H302
EU REACH: 01-2119486455-28-xxxx		Skin Corr.1B	H314
Reg. No: -		STOT SE3	H335
		Aquatic Chronic3	H412
Didecyldimethylammonium chloride			
Index-No: 612-131-00-6	>= 5 - < 10	Acute Tox.3	H301
CAS-No: 7173-51-5		Skin Corr.1B	H314
EC-No: 230-525-2		Eye Dam.1	H318
		Aquatic Chronic1	H410
		Aquatic Acute1	H411

		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 ---------- Acute toxicity estimate Acute oral toxicity: 238 mg/kg Acute dermal toxicity: 3342 mg/kg	
Alcohols C16-18, ethoxylated			
CAS-No: 68439-49-6 EC-No: 5002128	>= 3 - < 10	Eye Irrit.2	H319
Potassium carbonate			
CAS-No: 584-08-7 EC-No: 209-529-3 EU REACH-Reg. No: 01-2119532646-36-xxxx	>= 3 - < 5	Skin Irrit.2 Eye Irrit.2 STOT SE3	H315 H319 H335
Propan-2-ol			
Index-No: 603-117-00-0 CAS-No. : 67-63-0 EC-No. : 200-661-7 EU REACH – Reg. No.: 01-2119457558-25-xxxx	>= 1 - < 3	Flam. Liq.2 Eye Irrit.2 STOT SE3	H225 H319 H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

If inhaled: Move to fresh air. Consult a physician.

In case of skin contact: Wash off immediately with soap and plenty of water.
Remove contaminated clothing and shoes. Call a physician immediately.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes.
Remove contact lenses. Continue rinsing eyes during transport to hospital.

If swallowed: Call a physician immediately. Rinse mouth with water. Drink 1 or 2 glasses of water.
DO NOT induce vomiting unless directed to do so by a physician or poison control center.

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

Symptoms: See Section 11 for more detailed information on health effects and symptoms.

Effects: See Section 11 for more detailed information on health effects and symptoms.

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

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or CO2.
Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting: Heating or fire can release toxic gas.

5.3. Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment. Choose protective equipment according to size of fire.

Further advice: No further information available.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions: Keep away from heat and sources of ignition. For personal protection see section 8.

6.2. Environmental precautions
Do not flush into surface water or sanitary sewer system. In case of large spillage contact the local authority.

6.3. Methods and materials for containment and cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4. Reference to other sections
See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Provide for good ventilation. Mechanical ventilation can be needed. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures: Smoking, eating and drinking should be prohibited in the application area. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers: Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)
Specific use(s): No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Component: Potassium carbonate CAS-No. 584-08-7
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL
Workers, Long-term - local effects, Inhalation : 10 mg/m3
DNEL
Consumers, Long-term - local effects, Inhalation : 10 mg/m3

Component: Potassium carbonate CAS-No. 584-08-7 Predicted No Effect Concentration (PNEC)
Fresh water
No hazard identified

Marine water
No hazard identified

Sewage treatment plant (STP)
No hazard identified

Fresh water sediment
No hazard identified

Marine sediment
No hazard identified

Soil
No hazard identified

Secondary poisoning
no potential for bioaccumulation

Component: didecyldimethylammonium chloride CAS-No. 7173-51-5 Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)
DNEL
Workers, Long-term - systemic effects, Inhalation : 18,2 mg/m3

DNEL
Workers, Long-term - systemic effects, Skin contact: 8,6 mg/kg bw/day
Predicted No Effect Concentration (PNEC)
Fresh water: 0,0002 mg/l
Marine water: 0,0002 mg/l
Intermittent releases:0,29 µg/L
Sewage treatment plant (STP): 0,595 mg/l
Fresh water sediment: 2,82 mg/kg dry weight (d.w.)
Marine sediment: 0,28 mg/kg dry weight (d.w.)
Soil: 1,4 mg/kg dry weight (d.w.)

Component: Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS-No. 164462-16-2 Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)
DNEL
Workers, Acute - local effects, Acute - systemic effects, Long-term - systemic effects, Inhalation: 40 mg/m3
DNEL
Workers, Long-term - local effects, Inhalation: 4 mg/m3
DNEL
Consumers, Acute - local effects, Acute - systemic effects, Long-term - systemic effects, Inhalation: 20 mg/m3
DNEL
Consumers, Long-term - local effects, Inhalation: 2 mg/m3
DNEL
Consumers, Acute - systemic effects, Ingestion: 85 mg/kg bw/day
DNEL
Consumers, Long-term - systemic effects, Ingestion: 17 mg/kg bw/day

Predicted No Effect Concentration (PNEC)
Fresh water: 2 mg/l
Marine water: 0,2 mg/l
Intermittent releases: 1 mg/l
Fresh water sediment: 24 mg/kg
Sewage treatment plant (STP): 100 mg/l
Soil: 2,5 mg/kg

Component: sodium hydroxide CAS-No. 1310-73-2 Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)
DNEL
Workers, Long-term - local effects, Inhalation: 1,0 mg/m3
DNEL
Consumers, Long-term - local effects, Inhalation: 1,0 mg/m3

Predicted No Effect Concentration (PNEC)
No PNEC value was derived.

Component: 2-aminoethanol CAS-No. 141-43-5 Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)
DNEL
Workers, Long-term - local effects, Inhalation: 1 mg/m3
DNEL
Workers, Long-term - local effects, Inhalation: 0,51 mg/m3
DNEL
Workers, Long-term - systemic effects, Skin contact: 3 mg/kg bw/day
DNEL
Consumers, Long-term - systemic effects, Skin contact: 1,5 mg/kg bw/day
DNEL
Consumers, Long-term - systemic effects, Inhalation: 0,18 mg/m3
DNEL
Consumers, Long-term - systemic effects, Ingestion: 1,5 mg/kg bw/day

Predicted No Effect Concentration (PNEC)
Fresh water: 0,07 mg/l
Marine water: 0,007 mg/l
Intermittent releases: 0,028 mg/l
Fresh water sediment: 0,357 mg/kg d.w.
Marine sediment: 0,036 mg/kg d.w.
Soil: 1,29 mg/kg d.w.
Sewage treatment plant (STP): 100 mg/l

Other Occupational Exposure Limit Values
EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA): 1 ppm, 2,5 mg/m3
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
3 ppm, 7,6 mg/m3
Indicative

Sweden. OELs. Occupational Exposure Limit Values in line with Annex I to AFS 2023:14, Skin designation:
Can be absorbed through the skin.

Sweden. OELs. Occupational Exposure Limit Values in line with Annex I to AFS 2023:14, Ceiling Limit Value:
3 ppm, 7,5 mg/m3

Sweden. OELs. Occupational Exposure Limit Values in line with Annex I to AFS 2023:14, Time Weighted Average (TWA):
1 ppm, 2,5 mg/m3

8.2. Exposure controls
Personal protective equipment

Respiratory protection
Advice: Required, if exposure limit is exceeded (e.g. OEL). Recommended Filter type:A

Hand protection
Advice: Wear suitable gloves.

Eye protection
Advice: Tightly fitting safety goggles

Skin and body protection
Advice: Complete suit protecting against chemicals

Environmental exposure controls
General advice: Do not flush into surface water or sanitary sewer system. In case of large spillage contact the local authority.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:	Liquid
Colour:	Blue
Odour:	No data available
Odour Threshold:	No data available
pH:	> 12 (20 °C) Concentration: 100 %
Freezing point:	No data available
Boiling point:	No data available
Flash point:	> 65 °C
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapour pressure:	23 hPa (20 °C)
Relative vapour density:	No data available
Density:	1,06 g/cm3 (20 °C)
Water solubility:	Completely soluble
Partition coefficient:	N-octanol/water: no data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, dynamic:	30 mPa.s (20 °C)
Explosivity:	The product does not present an explosion hazard.
Oxidizing properties:	No data available

9.2. Other information

No further information available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Advice: Stable at normal ambient temperature and pressure.

10.2. Chemical stability

Advice: No decomposition if stored and applied as directed. No further information available.

10.3. Possibility of hazardous reactions

Hazardous reactions: No information available.

10.4. Conditions to avoid

Conditions to avoid: Protect from frost, heat and sunlight.

10.5. Incompatible materials

Materials to avoid: No information available.

10.6. Hazardous decomposition products

Hazardous decomposition products No information available.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Data for the product **Acute toxicity**

Oral

Acute toxicity estimate: > 2000 mg/kg) (Calculation method)
Cause serious burns with severe pains, vomiting, pains in the stomach, possibly chock and damaged kidneys. The burn may occur even if only small amounts have been swallowed.

Inhalation

Acute toxicity estimate: > 20 mg/l (4 h; vapour) (Calculation method)

Inhalation may cause pain and cough.

Dermal
Acute toxicity estimate: > 2000 mg/kg) (Calculation method)

Irritation

Skin
Result: May cause burns with pain, redness and wounds.

Eyes
Result: Splash in the eyes may cause painful burns, and may result in permanent damage to the eyes.

Sensitisation
No data available

CMR effects

CMR Properties
Carcinogenicity: No data available
Mutagenicity: No data available
Reproductive toxicity: No data available

Specific Target Organ Toxicity
Single exposure
Remarks May cause respiratory irritation.
Repeated exposure No data available

Other toxic properties
Repeated dose toxicity No data available

Aspiration hazard No data available

Further information

Experience with human exposure:
Contains organic solvents. Chronic exposure damages the brain and the central nervous system**.**

Component: Water CAS-No. 7732-18-5
Acute toxicity
Oral
LD50: > 89800 mg/kg (Rat)
Inhalation
No data available

Dermal
No data available

Other routes
LD50: 25000 mg/kg (intravenous;Mouse)
LD50: 190000 mg/kg (intraperitoneal;Mouse)

Irritation
Skin
Result: No skin irritation

Eyes
Result: No eye irritation

Sensitisation
Result: Not sensitizing

CMR effects
CMR Properties
Carcinogenicity: Not expected to be carcinogenic.
Mutagenicity: Not expected to be mutagenic.
Teratogenicity: No known significant effects or critical hazards.
Reproductive toxicity: No toxicity to reproduction

Specific Target Organ Toxicity
Single exposure
Remarks: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure
Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties
Aspiration hazard
Not applicable

Component: Alcohols C16-18, ethoxylated CAS-No. 68439-49-6 Acute toxicity
Oral
LD50: > 2000 mg/kg)

Inhalation
No data available

Dermal
No data available

Irritation
Skin
Result: No data available

Eyes
Result: No data available

Sensitisation
Result: No data available

CMR effects
CMR Properties
Carcinogenicity: No data available
Mutagenicity: No data available
Reproductive toxicity: No data available

Specific Target Organ Toxicity
Single exposure
Remarks: No data available

Repeated exposure
Remarks: No data available

Other toxic properties
Aspiration hazard
No data available

Component: Potassium carbonate CAS-No. 584-08-7
Acute toxicity
Oral
LD50: > 2000 mg/kg (Rat, male and female) (OECD Test Guideline 401)
Inhalation
LC50: > 4,96 mg/l (Rat, male and female; 4,5 h) (US EPA Pesticide Assessment Guidelines)
Dermal

LD50: > 2000 mg/kg (Rabbit, male and female) (US EPA Pesticide Assessment Guidelines)

Irritation
Skin
Result : (Irritating to skin.)

Eyes
Result: Causes serious eye irritation. (Rabbit) (FDA-Guideline)

Sensitisation
Result: not sensitizing (Buehler Test; Dermal; Guinea pig) (US EPA Pesticide Assessment Guidelines)

CMR effects
CMR Properties
Carcinogenicity: Did not show carcinogenic effects in animal experiments.
Mutagenicity: In vitro tests did not show mutagenic effects
Teratogenicity: Did not show teratogenic effects in animal experiments.

Genotoxicity in vitro
Result: negative (Ames test; Salmonella typhimurium; with and without metabolic activation) (OECD Test Guideline 471) negative (In vitro gene mutation study in mammalian cells; Mouse Lymphoma Cells; with and without metabolic activation) (OECD Test Guideline 476) negative (Chromosome aberration test in vitro; CHL cells; no) (OECD Test Guideline 473)

Teratogenicity
NOEL
Maternal: 180 mg/kg bw/day
NOEL
Teratog.: 180 mg/kg bw/day
NOEL
Embryo-Fetal: 180 mg/kg bw/day
(Rat)(Oral)(OECD Test Guideline 414)
NOEL
Maternal: 290 mg/kg bw/day
(Mouse)(Oral)(OECD Test Guideline 414)

Specific Target Organ Toxicity
Single exposure
Inhalation: May cause respiratory irritation.
Repeated exposure
Remarks: No data available
Other toxic properties
Repeated dose toxicity
NOAEL: 2667 mg/kg bw/day
(Rat, male)(Oral; 18 Months) ; Read-across (Analogy)
NOAEL: 3331 mg/kg bw/day
(Rat, female)(Oral; 18 Months) ; Read-across (Analogy)
NOAEC: 0,062 mg/l
(Rat, male and female)(Inhalation; 6 hours/day) (OECD Test Guideline 412)

Aspiration hazard
Not applicable

Component: didecyldimethylammonium chloride CAS-No. 7173-51-5
Acute toxicity
Oral
LD50: 238 mg/kg (Rat) (OECD Test Guideline 401)

Inhalation
No data available

Dermal
LD50: 3342 mg/kg (Rabbit)

Irritation
Skin
Result: Causes severe skin burns and eye damage. (Rabbit; 3 min) (OECD Test Guideline 404)

Eyes
Result: Causes serious eye damage.
Sensitisation
Result: not sensitizing (Buehler Test; Guinea pig) (OECD Test Guideline 406)

CMR effects
CMR Properties
Carcinogenicity: No data available
Mutagenicity: In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects
Teratogenicity: No data available
Reproductive toxicity: No data available

Genotoxicity in vitro
Result: negative (Ames test; Salmonella typhimurium; yes) (OECD Test Guideline 471)
negative (Chromosome aberration test in vitro; Chinese hamster ovary cells; yes)
negative (In vitro mammalian cell gene mutation test; Chinese hamster ovary cells; yes)

Genotoxicity in vivo
Result: negative (Chromosome aberration test in vivo; Rat) (Oral;) (OECD Test Guideline 475)

Specific Target Organ Toxicity
Single exposure
Remarks: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Repeated exposure
Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties
Aspiration hazard: Not applicable

Component: bis(4-hydroxy-N-methylanilinium) sulphate CAS-No. 55-55-0
Acute toxicity
Oral
LD50: 237 mg/kg (Rat)
Inhalation
No data available

Dermal
No data available

Irritation
Skin
Result: No data available

Eyes
Result: No data available

Sensitisation
Result: May cause an allergic skin reaction.

CMR effects
CMR Properties
Carcinogenicity: No data available
Mutagenicity: No data available
Reproductive toxicity: No data available
Specific Target Organ Toxicity
Single exposure
Remarks: No data available

Repeated exposure
Remarks: May cause damage to organs through prolonged or repeated exposure.

Other toxic properties
Aspiration hazard
No data available

Component: Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS-No. 164462-16-2
Acute toxicity
Oral
LD50: > 2000 mg/kg (Rat) (Tested according to Directive 92/69/EEC.)
Inhalation
LC50: > 5 mg/l

Dermal
LD50: > 2000 mg/kg (Rat) (OECD Test Guideline 402)

Irritation
Skin
Result: No skin irritation (Rabbit) (OECD Test Guideline 404)

Eyes
Result: No eye irritation (Rabbit) (OECD Test Guideline 405)

Sensitisation
Result: not sensitizing (Maximisation Test; Guinea pig) (OECD Test Guideline 406)

CMR effects
CMR Properties
Carcinogenicity: Animal testing did not show any carcinogenic effects.
Mutagenicity: In vitro tests did not show mutagenic effects
Teratogenicity: Did not show teratogenic effects in animal experiments.
Reproductive toxicity: Animal testing did not show any effects on fertility.

Genotoxicity in vitro
Result: negative (Ames test) (OECD Test Guideline 471)
negative (Ames test) (OECD Test Guideline 472)
negative (HGPRT assay) (OECD Test Guideline 476)

Genotoxicity in vivo
Result: negative (In vivo micronucleus test; Mammalian-Animal) (OECD Test Guideline 474)

Teratogenicity
NOAEL
Teratog.: >= 2.000 mg/kg
(Rat)(Oral)

Specific Target Organ Toxicity
Single exposure
Remarks: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure
Ingestion: Target Organs: Kidney
The substance or mixture is not classified as specific target organ toxicant, repeated exposure. In animals tests effects have been reported on the following organs: Kidney

Other toxic properties
Repeated dose toxicity
NOAEL: 530 mg/kg
(Rat)(Oral) (OECD Test Guideline 453); Kidney injury may occur.
Aspiration hazard
No aspiration toxicity classification,

Component: sodium hydroxide CAS-No. 1310-73-2 Acute toxicity
Oral
No valid data available.
Inhalation
No valid data available.
Dermal
No valid data available.
Irritation
Skin
Result: Very corrosive (Rabbit) (No guideline followed)

Eyes
Result: corrosive effects (Rabbit; Test substance: 10% solution) (OECD Test Guideline 405)Equivalent or similar to OECD Guideline

Sensitisation
Result: not sensitizing (Human) (No guideline followed)Patch test on human volunteers did not demonstrate sensitisation properties.

CMR effects
CMR Properties
Carcinogenicity: No experimental references for cancerogenity available.
Mutagenicity: In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects
Teratogenicity: No data available
Reproductive toxicity: Not expected to impair fertility.

Specific Target Organ Toxicity
Single exposure
Remarks: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Repeated exposure
Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties
Aspiration hazard
Not applicable

Component: 2-aminoethanol CAS-No. 141-43-5 Acute toxicity
Oral
LD50: 1089 mg/kg (Rat) (OECD Test Guideline 401)Cause serious burns with severe pains, vomiting, pains in the stomach, possibly chock and damaged kidneys. The burn may occur even if only small amounts have been swallowed.

Inhalation
LC50: > 1,3 mg/l (Rat; 6 h; vapour) Harmful by inhalation. Inhalation may cause pain to nose and throat, cough, headache and poorly.

Component: 2-aminoethanol CAS-No. 141-43-5
Dermal
No valid data available.

Irritation
Skin
Result: corrosive effects (Rabbit) (OECD Test Guideline 404) May cause burns with pain, redness and wounds.

Eyes
Result: corrosive effects (Rabbit) (OECD Test Guideline 405)

Sensitisation
Result: not sensitizing (Maximisation Test; Guinea pig) (OECD Test Guideline 406)

CMR effects
CMR Properties
Carcinogenicity: It is not considered carcinogenic.
Mutagenicity: Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Teratogenicity: Animal testing did not show any effects on foetal development.
Reproductive toxicity: A potential for reproductive damage can not be definitely excluded after ingestion of large quantities.

Specific Target Organ Toxicity
Single exposure
Inhalation: Target Organs: Respiratory system. May cause respiratory irritation.
Repeated exposure
Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Other toxic properties
Aspiration hazard
No aspiration toxicity classification.

Further information
Experience with human exposure: Contains organic solvent. Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

11.2 Information on other hazards
Data for the product
Endocrine disrupting properties
Assessment Endocrine Disrupting Properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component: Water CAS-No. 7732-18-5
Endocrine disrupting properties
Assessment Endocrine Disrupting Properties: No information available about endocrine disruption properties for human health.

Component: Alcohols C16-18, ethoxylated CAS-No. 68439-49-6
Endocrine disrupting properties
Assessment Endocrine Disrupting Properties: No information available about endocrine disruption properties for human health.

Component: Potassium carbonate CAS-No. 584-08-7
Endocrine disrupting properties
Assessment Endocrine Disrupting Properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component: didecyldimethylammonium chloride CAS-No. 7173-51-5
Endocrine disrupting properties
Assessment Endocrine Disrupting Properties: No information available about endocrine disruption properties for human health.

Component: bis(4-hydroxy-N-methylanilinium) sulphate CAS-No. 55-55-0
Endocrine disrupting properties
Assessment: No information available about endocrine disruption properties

Endocrine Disrupting Properties for human health.

Component: Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS-No. 164462-16-2
Endocrine disrupting properties
Assessment Endocrine Disrupting Properties : No information available about endocrine disruption properties for human health.

Component: sodium hydroxide CAS-No. 1310-73-2
Endocrine disrupting properties
Assessment Endocrine Disrupting Properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component: 2-aminoethanol CAS-No. 141-43-5
Endocrine disrupting properties
Assessment Endocrine Disrupting Properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Component: Water CAS-No. 7732-18-5 Acute toxicity
Fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available
algae: No data available

Short-term (acute) aquatic hazard
Result: The product is not classified as dangerous for the environment. Study scientifically unjustified. Chronic toxicity

Component: Alcohols C16-18, ethoxylated CAS-No. 68439-49-6
Acute toxicity
Fish: No data available
Toxicity to daphnia and other aquatic invertebrates: No data available
algae: No data available

Component: Potassium carbonate CAS-No. 584-08-7
Acute toxicity
Fish
LC50: 68 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (flow-through test; FIFRA Guideline 72-1)

NOEC
33 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (flow-through test; FIFRA Guideline 72-1)

Toxicity to daphnia and other aquatic invertebrates
EC50: 200 mg/l (Daphnia pulex (Water flea); 48 h) (static test; FIFRA Guideline 72-1)

NOEC
120 mg/l (Daphnia pulex (Water flea); 48 h) (static test; FIFRA Guideline 72-1)
algae: No data available

Component: didecyldimethylammonium chloride CAS-No. 7173-51-5
Acute toxicity
Fish
LC50: 0,19 mg/l (Pimephales promelas (fathead minnow); 96 h) (US-EPA)
Toxicity to daphnia and other aquatic invertebrates
EC50: 0,062 mg/l (Daphnia magna (Water flea); 48 h) (Immobilization; EPA-FIFRA)

algae
ErC50: 0,026 mg/l (Pseudokirchneriella subcapitata (green algae); 96 h) (Growth inhibition; OECD Test Guideline 201)

Bacteria
EC50: 11 mg/l (activated sludge; 3 h) (Respiration inhibition; OECD Test Guideline 209)

Chronic toxicity
Fish
NOEC: 0,032 mg/l (Danio rerio (zebra fish); 34 d) (OECD Test Guideline 210)

Aquatic invertebrates
NOEC
0,014 mg/l (Daphnia magna (Water flea); 21 d)

M-Factor
M-Factor (Acute Aquat. Tox.) : 10
M-Factor (Chron. Aquat. Tox.): 1 Component: bis(4-hydroxy-N-methylanilinium) sulphate CAS-No. 55-55-0

Acute toxicity
Fish: No data available
Toxicity to daphnia and other aquatic invertebrates: No data available
algae: No data available

Component: Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS-No. 164462-16-2
Acute toxicity
Fish
LC50: > 200 mg/l (Brachydanio rerio; 96 h) (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates
EC50:> 200 mg/l (Daphnia magna (Water flea); 48 h) (OECD Test Guideline 202)

algae
EC50: > 200 mg/l (Scenedesmus subspicatus; 72 h) (static test; End point: Growth rate; Tested according to Directive 92/69/EEC.)

Bacteria
EC20: > 2000 mg/l (activated sludge; 0,5 h) (OECD Test Guideline 209)aerobic

Chronic toxicity
Fish
NOEC: >= 200 mg/l (Oncorhynchus mykiss (rainbow trout); 28 d) (flow-through test; OECD Test Guideline 204)

Aquatic invertebrates
NOEC: >= 200 mg/l (Daphnia magna (Water flea); 21 d) (OECD Test Guideline 202)

Component: sodium hydroxide CAS-No. 1310-73-2
Acute toxicity
Fish
LC50: 125 mg/l (Gambusia affinis; 96 h) (No guideline followed)
LC50:145 mg/l (Poecilia reticulata; 24 h) (No guideline followed)

Toxicity to daphnia and other aquatic invertebrates
EC50: 40,4 mg/l (Ceriodaphnia (water flea); 48 h) (No guideline followed)

algae:
No data available

Component: 2-aminoethanol CAS-No. 141-43-5
Acute toxicity
Fish
LC50: 170 mg/l (Carassius auratus (goldfish); 96 h) (static test; APHA 1971)
LC50
349 mg/l (Cyprinus carpio (Carp); 96 h) (semi-static test; Tested according to Directive 92/69/EEC.)

Toxicity to daphnia and other aquatic invertebrates
EC50: 65 mg/l (Daphnia magna; 48 h)

algae
EC50: 22 mg/l (Scenedesmus subspicatus; 72 h) (Growth inhibition; Tested according to Directive 92/69/EEC.)
EC50
2,5 mg/l (Scenedesmus capricornutum (fresh water algae); 72 h) (Growth inhibition; OECD Test Guideline 201)

Bacteria
EC20: > 1000 mg/l (activated sludge; 0,5 h) (OECD Test Guideline 209)
EC50: 110 mg/l (Pseudomonas putida; 16 h) (DIN 38412)
EC50: > 1000 mg/l (activated sludge; 3 h) (OECD Test Guideline 209)

Chronic toxicity
Fish
NOEC: 1,2 mg/l (Oryzias latipes (Orange-red killifish); 30 d)

Aquatic invertebrates
NOEC
0,85 mg/l (Daphnia magna (Water flea); 21 d) (OECD Test Guideline 211)

12.2. Persistence and degradability Data for the product Persistence and degradability
Persistence
Result: No data available Component: Water CAS-No. 7732-18-5 Persistence and degradability

Persistence
Result: No data available

Biodegradability
Result: The methods for determining the biological degradability are not applicable to inorganic substances.

Component: Alcohols C16-18, ethoxylated CAS-No. 68439-49-6
Persistence and degradability
Persistence
Result: No data available

Biodegradability
Result: No data available

Component: Potassium carbonate CAS-No. 584-08-7
Persistence and degradability
Persistence
Result: No data available

Biodegradability
Result: The methods for determining the biological degradability are not applicable to inorganic substances.

Component: didecyldimethylammonium chloride CAS-No. 7173-51-5
Persistence and degradability
Persistence
Result: No data available

Biodegradability
Result: 72 % (Exposure Time: 28 d)(OECD Test Guideline 301B)Readily biodegradable.

Component: bis(4-hydroxy-N-methylanilinium) sulphate CAS-No. 55-55-0
Persistence and degradability
Persistence
Result: No data available

Biodegradability
Result: No data available

Component: Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS-No. 164462-16-2
Persistence and degradability
Persistence
Result: No data available

Biodegradability
Result: > 70 % (Related to: Dissolved organic carbon (DOC); Exposure Time: 28 d)(OECD Test Guideline 301A)

Readily biodegradable.
Result: > 80 % (Related to: Biochemical oxygen demand; Exposure Time: 28 d)(OECD Test Guideline 301F)

Readily biodegradable.
Result: 80 - 90 % (anaerobic; Related to: Theoretical inorganic carbon (ThIC); Exposure Time: 60 d)(OECD Test Guideline 311)

Component: sodium hydroxide CAS-No. 1310-73-2
Persistence and degradability
Persistence
Result: No data available

Biodegradability
Result: The methods for determining the biological degradability are not applicable to inorganic substances.

Component: 2-aminoethanol CAS-No. 141-43-5
Persistence and degradability
Persistence
Result: No data available

Component: 2-aminoethanol CAS-No. 141-43-5
Biodegradability
Result: > 90 % (aerobic; activated sludge; Exposure Time: 21 d)(OECD Test Guideline 301A) Readily biodegradable.

12.3. Bioaccumulative potential
Component: Water CAS-No. 7732-18-5
Bioaccumulation
Result: Not applicable

Component: Alcohols C16-18, ethoxylated CAS-No. 68439-49-6
Bioaccumulation
Result: No data available

Component: Potassium carbonate CAS-No. 584-08-7 Bioaccumulation
Result: Does not bioaccumulate.

Component: didecyldimethylammonium chloride CAS-No. 7173-51-5
Bioaccumulation
Result: log Kow 2,59 (20 °C; pH 7) (OECD Test Guideline 105) : BCF: 71; (Software BCFBAF) Low bioaccumulative potential

Component: bis(4-hydroxy-N-methylanilinium) sulphate CAS-No. 55-55-0
Bioaccumulation
Result: No data available

Component: Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS-No. 164462-16-2
Bioaccumulation
Result: log Kow -4,0 (25 °C; pH 11,4) : Bioaccumulation is not expected.

Component: sodium hydroxide CAS-No. 1310-73-2
Bioaccumulation
Result: Does not bioaccumulate.

Component: 2-aminoethanol CAS-No. 141-43-5
Bioaccumulation
Result: log Kow -2,3 (25 °C; pH 6,8 - 7,3) (OECD Test Guideline 107) : Bioaccumulation is not expected.

12.4. Mobility in soil
Component: Water CAS-No. 7732-18-5
Mobility
Result: The product will be dispersed amongst the various environmental compartments (soil/ water/ air).

Component: Alcohols C16-18, ethoxylated CAS-No. 68439-49-6
Mobility: No data available

Component: Potassium carbonate CAS-No. 584-08-7
Mobility
Water: The product is water soluble.
Air: not volatile

Component: didecyldimethylammonium chloride CAS-No. 7173-51-5
Mobility
Water: moderately soluble
Air:not volatile
Soil:Mobile in soils

Component: bis(4-hydroxy-N-methylanilinium) sulphate CAS-No. 55-55-0
Mobility: No data available

Component: Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS-No. 164462-16-2
Mobility
Air: The substance will not evaporate into the atmosphere from the water surface.
Soil: Not expected to adsorb on soil.

Component: sodium hydroxide CAS-No. 1310-73-2
Mobility
Water: Good soluble in water.
Air: not volatile
Soil: Low potential for adsorption (based on substance properties).

Component: 2-aminoethanol CAS-No. 141-43-5
Mobility: The substance will not evaporate into the atmosphere from the water surface., Not expected to adsorb on soil.

12.5. Results of PBT and vPvB assessment Data for the product Results of PBT and vPvB assessment
Result: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Component: Water CAS-No. 7732-18-5
Results of PBT and vPvB assessment
Result: The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

Component: Alcohols C16-18, ethoxylated CAS-No. 68439-49-6
Results of PBT and vPvB assessment
Result: Not persistent, bioaccumulative, and toxic (PBT)., Not very persistent and very bioaccumulative (vPvB).

Component: Potassium carbonate CAS-No. 584-08-7
Results of PBT and vPvB assessment
Result: The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

Component: didecyldimethylammonium chloride CAS-No. 7173-51-5
Results of PBT and vPvB assessment
Result: Not persistent, bioaccumulative, and toxic (PBT)., Not very persistent and very bioaccumulative (vPvB).

Component: bis(4-hydroxy-N-methylanilinium) sulphate CAS-No. 55-55-0
Results of PBT and vPvB assessment
Result: No data available

Component: Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS-No. 164462-16-2
Results of PBT and vPvB assessment
Result: Not persistent, bioaccumulative, and toxic (PBT)., Not very persistent and very bioaccumulative (vPvB).

Component: sodium hydroxide CAS-No. 1310-73-2
Results of PBT and vPvB assessment
Result: The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

Component: 2-aminoethanol CAS-No. 141-43-5
Results of PBT and vPvB assessment
Result: Not persistent, bioaccumulative, and toxic (PBT)., Not very persistent and very bioaccumulative (vPvB).

12.6. Endocrine disrupting properties Data for the product
Assessment Endocrine Disrupting Properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component: Water CAS-No. 7732-18-5
Assessment Endocrine Disrupting Properties: No information available about endocrine disruption properties for environment.

Component: Alcohols C16-18, ethoxylated CAS-No. 68439-49-6
Assessment Endocrine Disrupting Properties: No information available about endocrine disruption properties for environment.

Component: Potassium carbonate CAS-No. 584-08-7
Assessment Endocrine Disrupting Properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component: didecyldimethylammonium chloride CAS-No. 7173-51-5
Assessment Endocrine Disrupting Properties: No information available about endocrine disruption properties for environment.

Component: bis(4-hydroxy-N-methylanilinium) sulphate CAS-No. 55-55-0
Assessment Endocrine Disrupting Properties: No information available about endocrine disruption properties for environment.

Component: Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS-No. 164462-16-2
Assessment Endocrine Disrupting Properties: No information available about endocrine disruption properties for environment.

Component: sodium hydroxide CAS-No. 1310-73-2
Assessment Endocrine Disrupting Properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component: 2-aminoethanol CAS-No. 141-43-5
Assessment Endocrine Disrupting Properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects Data for the product
Additional ecological information
Result: Very toxic to aquatic life with long lasting effects.

Component: Water CAS-No. 7732-18-5
Additional ecological information
Result: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

Component: Alcohols C16-18, ethoxylated CAS-No. 68439-49-6
Additional ecological information
Result: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

Component: Potassium carbonate CAS-No. 584-08-7
Additional ecological information
Result: Harmful effects to aquatic organisms due to pH-shift.

Component: didecyldimethylammonium chloride CAS-No. 7173-51-5
Additional ecological information
Result: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

Component: bis(4-hydroxy-N-methylanilinium) sulphate CAS-No. 55-55-0
Additional ecological information
Result: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

Component: Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS-No. 164462-16-2
Additional ecological information
Result: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

Component: sodium hydroxide CAS-No. 1310-73-2
Additional ecological information
Result: Harmful effects to aquatic organisms due to pH-shift. Neutralization is normally necessary before waste water is discharged into water treatment plants. Do not flush into surface water or sanitary sewer system.

Component: 2-aminoethanol CAS-No. 141-43-5
Biochemical Oxygen Demand (BOD)
Result: 800 mg/g (Incubation time: 5 d)

Additional ecological information
Result: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Harmful effects to aquatic organisms due to pH-shift.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product
Eliminate waste in conditions authorized by the regulations. Store waste in containers provided for this purpose.
Do not dump in drains, water sheets or the ground.

Contaminated packaging
Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue Number
No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. TRANSPORT INFORMATION

14.1. UN number 1903
14.2. UN proper shipping name

ADR
DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Ethanolamine, Didecyldimethylammonium chloride)

RID
DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Ethanolamine, Didecyldimethylammonium chloride)

IMDG
DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Ethanolamine, Didecyldimethylammonium chloride)

14.3. Transport hazard class(es)

ADR-Class	8
(Labels; Classification Code; Hazard identification No; Tunnel restriction code)	8; C9; 80; (E)
RID-Class	8
(Labels; Classification Code; Hazard identification No)	8; C9; 80

IMDG-Class	8
(Labels; EmS)	8; F-A, S-B

14.4. Packaging group

ADR	III
RID	III
IMDG	III

14.5. Environmental hazards

Environmentally hazardous according to ADR	Yes
Environmentally hazardous according to RID	Yes
Marine Pollutant according to IMDG-Code	Yes

14.6. Special precautions for user
Not applicable.

14.7 Maritime transport in bulk according to IMO instruments
Not applicable for product as supplied.

15. REGULATORY INFORMATION

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

Data for the product
Pregnant and nursing women may not be exposed to the product. Take in consideration the national regulation. As a principal rule, persons under 18 years are not allowed to work with this substance. Only persons, who are thoroughly instructed in the dangerous properties and the necessary safety precautions of the substance, are allowed to work with it.

Component: Water CAS-No. 7732-18-5
EU. Chemicals Subject to Export Notification: Annex 1, Part 1, Regulation 649/2012/EU on export and import of dangerous chemicals, as amended: The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, 1907/2006/EC, as amended: The substance/mixture does not fall under this legislation.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I
The substance/mixture does not fall under this legislation.

Component: Alcohols C16-18, ethoxylated CAS-No. 68439-49-6
EU. Chemicals Subject to Export Notification: Annex 1, Part 1, Regulation 649/2012/EU on export and import of dangerous chemicals, as amended: The substance/mixture does not fall under this legislation.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I
The substance/mixture does not fall under this legislation.

Component: Potassium carbonate CAS-No. 584-08-7
EU. Chemicals Subject to Export Notification: Annex 1, Part 1, Regulation 649/2012/EU on export and import of dangerous chemicals, as amended:The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, 1907/2006/EC, as amended: The substance/mixture does not fall under this legislation.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: The substance/mixture does not fall under this legislation.

Component: didecyldimethylammonium chloride CAS-No. 7173-51-5
EU. Chemicals Subject to Export Notification: Annex 1, Part 1, Regulation 649/2012/EU on export and import of dangerous chemicals, as amended: Combined Nomenclature (CN) Number(s): , 29239000; Sub-category: Pesticide in the group of plant protection products.; Annex I, Part 1: Chemicals Subject to Export Notification

EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, 1907/2006/EC, as amended: Point Nos.: , 75; Listed

EU. Directive 98/8/EC, Annex 1, Active substances in biocidal products: Expiry Date of Inclusion: , 31 Jan 2025
Inclusion Date: 1 Feb 2015
Deadline for Compliance: , 31 Jan 2017
Minimum purity: 870, g/kg; Wood preservatives; Special provisions may apply; see text of legislation.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances: Qualifying quantity for the application of Lower-tier requirements: 100 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Annex I; Qualifying quantity for the application of Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Component: bis(4-hydroxy-N-methylanilinium) sulphate CAS-No. 55-55-0
EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, 1907/2006/EC, as amended:Point Nos.: , 75; Listed

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Qualifying quantity for the application of Lower-tier requirements: 50 tonnes; Part 1: Categories of dangerous substances; ACUTE TOXIC (Category 2, all exposure routes; Category 3, inhalation)
Qualifying quantity for the application of Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances;

ACUTE TOXIC (Category 2, all exposure routes; Category 3, inhalation)
Qualifying quantity for the application of Lower-tier requirements: 100 tonnes; Part 1: Categories of dangerous substances;

Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
Qualifying quantity for the application of Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Component: Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS-No. 164462-16-2
EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: The substance/mixture does not fall under this legislation.

Component: sodium hydroxide CAS-No. 1310-73-2
EU. Chemicals Subject to Export Notification: Annex 1, Part 1, Regulation 649/2012/EU on export and import of dangerous chemicals, as amended; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, 1907/2006/EC, as amended: Point Nos.: 75; Listed

EU. Restricted Substances: Annex III, Regulation 1223/2009/EC on Cosmetic Products, as amended: Maximum concentration in ready for use preparation: 2 %; Hair straightener: General use; See the text of the regulation for applicable exceptions or provisions.

pH < 12,7.; pH adjuster for depilatories; See the text of the regulation for applicable exceptions or provisions.
Maximum concentration in ready for use preparation: 4,5 %; Hair straightener: Professional use; See the text of the regulation for applicable exceptions or provisions.

pH < 11.; Uses as pH adjuster other than for depilatories; See the text of the regulation for applicable exceptions or provisions.
Maximum concentration in ready for use preparation: 5 %; Nail cuticle solvent; See the text of the regulation for applicable exceptions or provisions.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: The substance/mixture does not fall under this legislation.

Component: 2-aminoethanol CAS-No. 141-43-5
EU. Chemicals Subject to Export Notification: Annex 1, Part 1, Regulation 649/2012/EU on export and import of dangerous chemicals, as amended: Not listed

EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, 1907/2006/EC, as amended: Point Nos.: 75; Listed

Point Nos.: 3; Listed

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: The substance/mixture does not fall under this legislation.

15.2. Chemical safety assessment
No data available

16. OTHER INFORMATION

VEGAN Certified
Proven effective against bacteria and viruses in accordance with EU regulations EN 14476, EN 14561, EN 14562.
Mixing Ratio: 50 ml Concentrate to 1000 ml water.

Full text of H-Statements referred to under sections 2 and 3.
H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
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.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Abbreviations and Acronyms
AU
AIICL Australia. Industrial Chemicals Act (AIIC) List
BCF
Bioconcentration factor
BOD
biochemical oxygen demand
CAS
Chemical Abstracts Service
CLP
Classification, Labelling and Packaging
CMR
carcinogenic, mutagenic or toxic to reproduction
COD
chemical oxygen demand
DNEL
derived no-effect level
DSL
Canada. Environmental Protection Act, Domestic Substances List
EINECS
European Inventory of Existing Commercial Chemical Substances
ELINCS
European List of Notified Chemical Substances
ENCS (JP)
Japan. Kashin-Hou Law List
GHS
Globally Harmonized System of Classification and Labelling of Chemicals
IECSC
China. Inventory of Existing Chemical Substances

INSQ
Mexico. National Inventory of Chemical Substances
ISHL (JP)
Japan. Inventory of Industrial Safety & Health
KECI (KR)
Korea. Existing Chemicals Inventory
LC50
median lethal concentration
LOAEC
lowest observed adverse effect concentration
LOAEL
lowest observed adverse effect level
LOEL
lowest observed effect level
NDSL
Canada. Environmental Protection Act. Non-Domestic Substances List
NLP
no-longer polymer
NOAEC
no observed adverse effect concentration
NOAEL
no observed adverse effect level
NOEC
no observed effect concentration
NOEL
no observed effect level
NZIOC
New Zealand. Inventory of Chemicals
OECD
Organisation for Economic Cooperation and Development
OEL
occupational exposure limit
ONT INV
Canada. Ontario Inventory List
PBT
persistent, bioaccumulative and toxic
PHARM (JP)
Japan. Pharmacopoeia Listing
PICCS (PH)
Philippines. Inventory of Chemicals and Chemical Substances
PNEC
predicted no-effect concentration
REACH Auth. No.:
REACH Authorisation Number
REACH AuthAppC. No.
REACH Authorisation Application Consultation Number
UK REACH Auth. No.:
UK REACH Authorisation Number
UK REACH AuthAppC. No.
UK REACH Authorisation Application Consultation Number
UK REACH-Reg.No
UK REACH Registration Number
STOT
specific target organ toxicity
SVHC
substance of very high concern
TCSI
Taiwan. Existing Chemicals Inventory
TH INV
Thailand. Existing Chemicals Inventory from FDA
TSCA
US. Toxic Substances Control Act

UVCB
substance of unknown or variable composition, complex reaction products or biological materials
VN INVL
Vietnam. National Chemical Inventory
vPvB
very persistent and very bioaccumulative

Key literature references and sources for data: Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification: The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings: The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.