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

Valid from 2020-01-07 Version 1.0

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

1.1. Product identifier
Trade name: Disicide® Plus+ Concentrate
1000 ml Art.nr. 035029 5000 ml. Art.nr. 035030

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the Substance/Mixture: Surface Disinfection

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
SE – 24534 Staffanstorp, Sweden
+46 46 238495
info@disicide.com

1.4 Emergency telephone number Please call your local emergency number

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
Chronic aquatic toxicity	Category 3	---	H412

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

Most important adverse effects

Human Health According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

Physical and chemical hazards Stable under normal conditions.
Potential environmental effects Harmful to aquatic life with long lasting effects.

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

Hazard statements: H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
Prevention: P273 Avoid release to the environment.
Response: P391 Collect spillage.
Prevention: P501 Dispose of contents/container according to hazardous waste regulation.

2.3. Other hazards
For Results of PBT and vPvB assessment see section 12.5.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008) Hazard class / Hazard category	Hazard statements
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides			
	< 1	Acute Tox.4	H302
CAS-No: 68424-85-1		Skin Corr.1B	H314
EC-No: 270-325-2		Eye Dam.1	H318
		Aquatic Acute1	H400
		Aquatic Chronic1	H410
Didecyldimethylammonium chloride			
Index-No: 612-131-00-6	< 1	Acute Tox.3	H301
CAS-No: 7173-51-5		Skin Corr.1B	H314
EC-No: 230-525-2		Aquatic Acute1	H400
		Aquatic Chronic1	H410
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides			
	< 1	Acute Tox.4	H302
CAS-No: 85409-23-0		Skin Corr.1B	H314
EC-No: 287-090-7		Aquatic Acute1	H400
		Aquatic Chronic1	H410

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: Under normal conditions of use no acute inhalation hazard is anticipated.
Call a poison center or doctor if exposed or you feel unwell.

In case of skin contact: Wash off with soap and water. Call a physician if irritation develops or persists.

In case of eye contact: Rinse with plenty of water. Remove contact lenses. If systems persist, call Doctor.

If swallowed: Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. If you feel unwell, seek medical advice (show the label where possible).

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: Treat symptomatically. No further information available.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media: All common extinguishing agents are suitable.
Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture
Specific hazards during firefighting: The product itself does not burn. May decompose in a fire giving off toxic fumes.

5.3. Advice for firefighters
Special protective equipment 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
For personal protection see section 8.

6.2. Environmental precautions
If case of large spillage into environment, inform respective authorities.

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 8 for information on personal protective equipment.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Advice on safe handling:
Handle in accordance with good industrial hygiene and safety practice.

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. Keep away from food, drink and animal feeding-stuffs.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers: Store at room temperature in the original container.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
(Additional) Information Contains no substances with occupational exposure limit values.

8.2. Exposure controls
Appropriate engineering controls Ensure adequate ventilation.

Personal protective equipment
Respiratory protection
Advice: Do not breathe vapours or spray mist.

Hand protection
Advice: Wear suitable gloves.

Eye protection
Advice: Safety glasses

Environmental exposure controls
General advice: If case of large spillage into environment, inform respective authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:	Liquid
Colour:	colourless
Odour:	No data available
Odour Threshold:	No data available
pH:	No data available
Freezing point:	No data available
Boiling point:	ca. 100 °C
Flash point:	No data available
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:	No data available
Relative vapour density	No data available
Relative density:	No data available
Solubility / qualitative:	No data available
Partition coefficient:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, dynamic:	No data available
Explosivity:	No data available
Oxidizing properties:	No data available

9.2. Other information

No further information available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Advice: No information available.

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 further information available.

10.4. Conditions to avoid

Conditions to avoid: Contact with protein or anionic soap is reducing the product efficiency.

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)

Inhalation No data available

Dermal No data available

Irritation

Skin No data available

Eyes May have irritant effect on eyes

Sensitisation
No sensitizing effect known by skin contact.

CMR effects

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

Specific Target Organ Toxicity

Single exposure No data available

Repeated exposure No data available

Other toxic properties

Repeated dose toxicity No data available

Aspiration hazard No data available

Component:
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides CAS-No. 68424-85-1

Acute toxicity

Oral

LD50 ca. 344 mg/kg (Rat)

Dermal

LD50 ca. 3340 mg/kg (Rabbit)

Irritation

Skin

Result Corrosive effects (Rabbit; 24 h) (DOT)

Eyes
Result Corrosive effects (Rabbit) (DOT)

Sensitation
Result Not sensitizing (Buehler Test; Guinea pig) (OECD Test Guideline 406)

Component:

Didecyldimethylammonium chloride CAS-No. 7173-51-5

Acute toxicity

Oral

LD50 ca. 238 mg/kg (Rat)

Dermal

LD50 ca. 3342 mg/kg (Rabbit)

Sensitation

Result Not sensitizing (Buehler Test; Guinea pig) (US-EPA method)

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides CAS-No. 68424-85-1

Acute toxicity

Fish

LC50 0,28 mg/l ((Pimephales promelas (fathead minnow); 96 h) (US – EPA)

Toxicity to daphnia and other aquatic invertebrates

EC50 0,016 mg/l (Daphnia magna (Water flea); 48 h) (Immobilization; OECD Test Guideline 202)

Algae

ErC50 0,049 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h)
(End point: Growth rate; OECD Test Guideline 201)

Bacteria

EC50 7,75 mg/l (activated sludge; 3 h) (OECD Test Guideline 209)

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 48 h) (Immobilization; EPA-FIFRA)

Algae

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

Bacteria

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

Aquatic invertebrates

NOEC 0,010 mg/l (Daphnia magna (Water flea); 21 d)
(Reproductive toxicity; OECD Test Guideline 211)

M-Factor

M-Factor (Acute Aquat. Tox.) 10

M-Factor (Chron. Aquat. Tox.) 1

12.2. Persistence and degradability

Data for the product **Persistence and degradability**

Persistence

Result No data available

Biodegradability

Result The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 and 907/2006 on detergents.

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides CAS-No. 68424-85-1

Persistence and degradability

Biodegradability

Result: > 90 % (OECD 303 A)
Result: > 99 % (Exposure Time: 7 d)(OECD Test Guideline 302A)
Result: 95,5 % (Exposure Time: 28 d)(OECD Test Guideline 301B)Readily biodegradable.

Component:
Didecyldimethylammonium chloride CAS-No. 7173-51-5

Persistence and degradability

Biodegradability

Result: 72 % (Exposure Time: 28 d)(OECD Test Guideline 301B)Readily biodegradable.
Result: 91 % (Exposure Time: 24 - 70 d)(OECD 303 A)

Component:
Didecyldimethylammonium chloride CAS-No. 7173-51-5

12.3. Bioaccumulative potential

Component: Didecyldimethylammonium chloride CAS-No. 7173-51-5

Bioaccumulation

Result BCF: 2,1 Bioaccumulation is not expected.

12.4. Mobility in soil

Data for the product
Result No data available

12.5. Results of PBT and vPvB assessment

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides CAS-No. 68424-85-1

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: Didecyldimethylammonium chloride CAS-No. 7173-51-5
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.

12.6. Other adverse effects
Data for the product
Additional ecological information

Result Harmful to aquatic life with long lasting effects

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

Not dangerous goods for ADR, RID, IMDG and IATA

14.1. UN number Not applicable.

14.2. UN proper shipping name Not applicable.

14.3. Transport hazard class(es) Not applicable.

14.4. Packaging group Not applicable.

14.5. Environmental hazards Not applicable.

14.6. Special precautions for user Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
IMDG Not applicable.

15. REGULATORY INFORMATION

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

Data for the product

Other regulations	Only persons, who are thoroughly instructed in the dangerous properties and the necessary safety precautions of the substance, are allowed to work with it.
15.2. Chemical safety assessment	No data available

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and Acronyms

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
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	Median lethal concentration
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
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
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational exposure limit
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted no-effect concentration
STOT	Specific target organ toxicity
SVHC	Substance of very high concern
UVCB	Substance of unknown or variable composition, complex reaction products or biological materials
vPvB	Very persistent and very bioaccumulative

Shelf life of this product is two years after production date, this information is printed on the bottle.