

Saniswiss biosanitizer S4

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date first issue:

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

1.1. Product identifier

Product form : Mixture
Product name : Saniswiss biosanitizer S4
Product code : 132078
Product group : Mixture

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

1.2.1. Relevant identified uses

Main use category : Professional use
Description/Application : Disinfectant detergent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Saniswiss SA
ch. des tulipiers, 19
1208 Geneva - Switzerland
t 41 22 718 75 75 - f 41 22 718 75 76 (during business hours Monday – Friday)
info@saniswiss.ch

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
Switzerland	Centre Suisse d'Information Toxicologique	Freiestrasse 16 8032 Zürich	+41 44 251 51 51 145

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral) H302
Skin Corr. 1B H314
Aquatic Acute 1 H400
Aquatic Chronic 2 H411

Full text of hazard classes and H-statements : see section 16

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

Hazardous ingredients :

Didcyldimethylammonium chloride; Ethane-1,2- diol; Ethoxylated Laury Alcohol;
tetrasodium ethylene diamine tetraacetate; N-(3-aminopropyl)-N-dodecylpropane-
1,3diamine

Hazard statements (CLP) :

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P273 - Avoid release to the environment
P280 - Wear eye protection, face protection, protective clothing, protective gloves
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower

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P310 - Immediately call a POISON CENTER or doctor/physician

EUH-statements

: EUH208 - Contains (470-82-6). May produce an allergic reaction

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-(3-aminopropyl)-N-dodecylpropane-1,3diamine	(CAS-no) 2372-82-9 (REACH-no) 01-2119980592-29	5 - 10	Xn; R22 C; R35 Xn; R48/22 N; R50
Didecyltrimethylammonium chloride	(CAS-no) 7173-51-5 (Einecs nr) 230-525-2 (EG annex nr) 612-131-00-6	< 5	Xn; R22 C; R34 N; R50
tetrasodium ethylene diamine tetraacetate	(CAS-no) 64-02-8 (Einecs nr) 200-573-9 (EG annex nr) 607-428-00-2	< 5	Xn; R22 Xi; R41
Citric acid	(CAS-no) 5949-29-1 (Einecs nr) 201-069-1	< 5	Xi; R36
Ethoxylated Laury Alcohol	(CAS-no) 71060-57-6_ 66455-15-0	<= 3	Xn; R22 Xi; R41
Ethane-1,2- diol	(CAS-no) 107-21-1 (Einecs nr) 203-473-3 (EG annex nr) 603-027-00-1 (REACH-no) 01-2119456816-28	<= 1	Xn; R22
	(CAS-no) 470-82-6 (REACH-no) 01-2119967772-24	< 0.15	R10 R43

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-(3-aminopropyl)-N-dodecylpropane-1,3diamine	(CAS-no) 2372-82-9 (REACH-no) 01-2119980592-29	5 - 10	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Didecyltrimethylammonium chloride	(CAS-no) 7173-51-5 (Einecs nr) 230-525-2 (EG annex nr) 612-131-00-6	< 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411
tetrasodium ethylene diamine tetraacetate	(CAS-no) 64-02-8 (Einecs nr) 200-573-9 (EG annex nr) 607-428-00-2	< 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 STOT RE 2, H373
Citric acid	(CAS-no) 5949-29-1 (Einecs nr) 201-069-1	< 5	Eye Irrit. 2, H319
Ethoxylated Laury Alcohol	(CAS-no) 71060-57-6_ 66455-15-0	<= 3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Ethane-1,2- diol	(CAS-no) 107-21-1 (Einecs nr) 203-473-3 (EG annex nr) 603-027-00-1 (REACH-no) 01-2119456816-28	<= 1	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
	(CAS-no) 470-82-6 (REACH-no) 01-2119967772-24	< 0.15	Flam. Liq. 3, H226 Skin Sens. 1B, H317

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

: In case of doubt or persistent symptoms, consult always a physician. For symptom description, see item 11.

Inhalation

: In case of malaise, seek medical advice.

Skin contact

: Take off immediately all contaminated clothing. Rinse first with plenty of water and if necessary take medical advice.

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Eye contact : Rinse immediately and plentifully with water and take medical advice.
Ingestion : If swallowed, seek medical advice immediately and show this container or label.

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

Acute effects inhalation : No data available.
Acute effects skin : Causes burns.
Acute effects eyes : Causes serious eye damage.
Acute effects oral route : No data available.

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 : The product itself does not burn. Foam, powder, carbon dioxide (CO₂), water spray.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent liquid from entering sewers, watercourses, underground or low areas.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Wash away remainder with plenty of water.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product. Shower, eyes shower and water point in proximity.

Hygiene measures : Do not eat, drink or smoke in areas where product is used.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container.

Storage temperature : 5 - 40 °C

Material(s) to avoid : Not determined.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethane-1,2- diol (107-21-1)		
France	VLE (mg/m ³)	104 mg/m ³
France	VLE (ppm)	40 ppm
France	VME (mg/m ³)	52 mg/m ³
France	VME (ppm)	20 ppm
Switzerland	VLE (mg/m ³)	52 mg/m ³
Switzerland	VLE (ppm)	20 ppm
Switzerland	VME (mg/m ³)	26 mg/m ³
Switzerland	VME (ppm)	10 ppm
Switzerland	Remark (CH)	4x15

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tetrasodium ethylene diamine tetraacetate (64-02-8)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	3 mg/m ³
Long-term - local effects, inhalation	1.5 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	1.2 mg/m ³
Long-term - local effects, inhalation	0.6 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	2.2 mg/l
PNEC aqua (marine water)	0.22 mg/l
PNEC aqua (intermittent, freshwater)	1.2 mg/l
PNEC (Soil)	
PNEC soil	0.72 mg/kg dwt
N-(3-aminopropyl)-N-dodecylpropane-1,3diamine (2372-82-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.91 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.35 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.7 mg/m ³
Long-term - systemic effects, dermal	0.54 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.001 mg/l
PNEC aqua (marine water)	0.0001 mg/l
PNEC aqua (intermittent, freshwater)	0.00015 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	8.5 mg/kg dwt
PNEC sediment (marine water)	0.85 mg/kg dwt
PNEC (Soil)	
PNEC soil	45.34 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1.33 mg/l

8.2. Exposure controls

Hand protection	: Chemical resistant PVC gloves (to European standard EN 374 or equivalent). Time of penetration is to be fixed with the producer (minimum 1: level 2).
Eye protection	: Wear eye/face protection.
Protective equipment	: Wear suitable protective clothing minimum (EN 13034) Type 6 equipment.
Respiratory protection	: Not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Physical state/form	: Liquid.
Colour	: Yellow to colourless.
Odour	: pine odour.
Odour threshold	: No data available
pH	: 8.8 - 9.4 (100%)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point/range	: No data available
Freezing point	: No data available
Boiling point/Boiling range	: >= 100 °C
Flash point	: Not required.
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.047 - 1.057
Solubility	: Water: (100 %) 20°C

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Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Temperatures below 0°C.

10.5. Incompatible materials

Do not mix with other products.

10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

SANISWISS BIOSANITIZER S4	
ATE CLP (oral)	1299.036 mg/kg bodyweight
Didecyldimethylammonium chloride (7173-51-5)	
LD50 oral rat	470 mg/kg
LD50 dermal rat	1428 mg/kg
ATE CLP (oral)	470.000 mg/kg bodyweight
ATE CLP (dermal)	1428.000 mg/kg bodyweight
Ethane-1,2- diol (107-21-1)	
LD50 oral rat	> 300 - 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2.5 mg/l
ATE CLP (oral)	300.000 mg/kg bodyweight
tetrasodium ethylene diamine tetraacetate (64-02-8)	
LD50 dermal rabbit	> 5000 mg/kg
ATE CLP (oral)	500.000 mg/kg bodyweight
ATE CLP (gases)	4500.000 ppmv/4h
ATE CLP (vapours)	11.000 mg/l/4h
ATE CLP (dust,mist)	1.500 mg/l/4h
Ethoxylated Laury Alcohol (71060-57-6_ 66455-15-0)	
LD50 oral	>300 ≤ 2000 mg/kg
ATE CLP (oral)	500.000 mg/kg bodyweight
N-(3-aminopropyl)-N-dodecylpropane-1,3diamine (2372-82-9)	
LD50 oral rat	871 mg/kg
ATE CLP (oral)	100.000 mg/kg bodyweight

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 8.8 - 9.4 (100%)
Serious eye damage/irritation	: Serious eye damage, category 1, implicit pH: 8.8 - 9.4 (100%)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified

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Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

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

Didecyldimethylammonium chloride (7173-51-5)	
LC50 fish 1	0.5 mg/l
LC50 other aquatic organisms 1	0.03 mg/l
EC50 Daphnia 1	0.04 mg/l
NOEC (additional information)	NOEC / 21 d : 0.021 mg/l (Daphnia magna (OECD 211))
Ethane-1,2- diol (107-21-1)	
LC50 fish 1	> 72000 mg/l
tetrasodium ethylene diamine tetraacetate (64-02-8)	
LC50 fish 1	121 mg/l
ErC50 (algae)	> 100 mg/l
ErC50 (other aquatic plants)	625 mg/l
N-(3-aminopropyl)-N-dodecylpropane-1,3diamine (2372-82-9)	
LC50 fish 1	> 0.1 - 1 mg/l
EC50 Daphnia 1	0.078 mg/l
ErC50 (algae)	> 0.01 - 0.1 mg/l

12.2. Persistence and degradability

SANISWISS BIOSANITIZER S4	
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Didecyldimethylammonium chloride (7173-51-5)	
Bioconcentration factor (BCF REACH)	81
Ethane-1,2- diol (107-21-1)	
Bioconcentration factor (BCF REACH)	2.1
Log Pow	< 3

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Didecyldimethylammonium chloride (7173-51-5)	
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	
Ethane-1,2- diol (107-21-1)	
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	
tetrasodium ethylene diamine tetraacetate (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	
N-(3-aminopropyl)-N-dodecylpropane-1,3diamine (2372-82-9)	
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. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of this material and its container at hazardous or special waste collection point.
Waste / unused products : Don't throw the residus in the sewers and the rivers.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 3267

14.2. UN proper shipping name

Proper shipping name : CORROSIVE LIQUID, BASIC, N.S.A N-(3-aminopropyl)-N-dodecylpropane-1,3diamine + Didécylidiméthylammonium chloride

Transport document description (ADR) : UN 3267 CORROSIVE LIQUID, BASIC, N.S.A N-(3-aminopropyl)-N-dodecylpropane-1,3diamine + Didécylidiméthylammonium chloride, 8, III, (E), ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

Class (ADR) : 8

Danger labels (ADR) : 8



14.4. Packing group

Packing group (ADR) : III

14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : C9

Tunnel code : E

Limited quantities (ADR) : 5l

LQ : LQ07

Excepted quantities (ADR) : E1

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Other information, restriction and prohibition regulations : Not affected by the conditions of restriction _ ANNEXE XVII.

Detergent Regulation : Labelling of contents:

Component	%
Non-ionic surfactants, EDTA and salts thereof	<5%

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Disinfectants	
perfumes	

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

2	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
3.2	Composition/information on ingredients	Modified	
9.1		Modified	
11.1		Modified	
15		Modified	
16		Modified	

Data sources : Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]. Acute Tox. 4 (Oral). Skin Corr.1A. Aquatic Acute 1. Aquatic Chronic 3. Calculation method.

Other information : It is recommended to pass the information of this safety data sheet, eventually in an appropriated form, to the users. Such information is actually to be best of our knowledge and believes accurate as reliable. This information relates to the specific material designated and may not be valid in combination with other product(s). EC Regulation 1272/2008 and its amendments.

Full text of R-, H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1B	Sensitisation — Skin, category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
EUH208	Contains . May produce an allergic reaction

It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product