

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

Name of product Sonoswiss Cleaner T1 (SW-C T1)

1.2. Relevant identified uses of the substance or mixture and uses advised against**Identified uses****Sector of uses [SU]**

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

! Recommended intended purpose(s)

Alcaline cleaning concentrate for the metal cleaning (not for aluminium and light metal alloys).

1.3. Details of the supplier of the safety data sheet**Manufacturer/distributor** Sonoswiss AG
Sonnenstr. 417, CH-8262 Ramsen/SH
Phone +41 52 742 80 10, Fax +41 52 742 80 18
E-Mail info@sonoswiss.ch
Internet www.sonoswiss.ch**Advice** Email: info@sonoswiss.ch
Phone +41 52 742 80 10**1.4. Emergency telephone number****Emergency advice** Schweizerisches Toxikologisches Informationszentrum, Zürich
Phone +41 44 251 51 51**! SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****! Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Skin Irrit. 2	H315	Expert judgement and weight of evidence determination. Calculation method.
Eye Dam. 1	H318	

Hazard Statements

H315	Causes skin irritation.
H318	Causes serious eye damage.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**

GHS05

! Signal word

Danger

Hazard Statements

H315	Causes skin irritation.
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H318 Causes serious eye damage.

Precautionary Statements

P280 Wear protective gloves/eye protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of water.

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

P310 Immediately call a doctor.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

Hazardous ingredients for labeling

disodium metasilicate

2.3. Other hazards**Results of PBT and vPvB assessment**

The product does not contain any PBT-/vPvB-substances according to the recipe.

SECTION 3: Composition/ information on ingredients**3.1. Substances**

not applicable

3.2. Mixtures**Description**

Aqueous alkaline mixture of anionic and nonionic surfactants, disodium-metasilicate, complexing agents and hydrotropic component.

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
111798-26-6		Na-alkyl-PEG-ether ester of phosphoric acid	< 5	Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Aquatic Chronic 3, H412
68154-97-2	935-890-8	fattyalkohol, C10-12, propoxylated, ethoxylated	< 5	Eye Irrit. 2, H319
6834-92-0	229-912-9	disodium metasilicate	< 5	Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / STOT SE 3, H335
15763-76-5	239-854-6	sodium cumenesulphonate	< 5	Eye Irrit. 2, H319
164524-02-1	629-764-9	potassium cumenesulphonate	< 5	Eye Irrit. 2, H319
7320-34-5	230-785-7	tetrapotassium pyrophosphate	< 5	Eye Irrit. 2, H319

REACH

CAS No	Name	REACH registration number
111798-26-6	Na-alkyl-PEG-ether ester of phosphoric acid	Not relevant (polymer).
68154-97-2	fattyalkohol, C10-12, propoxylated, ethoxylated	Not relevant (polymer).
6834-92-0	disodium metasilicate	01-2119449811-37
15763-76-5	sodium cumenesulphonate	01-2119489411-37
164524-02-1	potassium cumenesulphonate	01-2119489427-24
7320-34-5	tetrapotassium pyrophosphate	01-2119489369-18

Additional advice

Ingredients according to Annex VII, A, EC-Regulation 648/2004 (detergents): 5-15% anionic surfactants, <5% non-ionic surfactants, <5% amine-soaps, <5% phosphates.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately and dispose it safely.

In case of skin contact

In case of contact with skin wash off immediately with plenty of water.
Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Do not induce vomiting.
If swallowed seek medical advice immediately and show the doctor packing or label.
Rinse out mouth and give plenty of water to drink.

4.2. Most important symptoms and effects, both acute and delayed**Physician's information / possible symptoms**

No further informations available.

4.3. Indication of any immediate medical attention and special treatment needed**Treatment (Advice to doctor)**

Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

water

Product does not burn, fire-extinguishing activities according to surrounding.

Foam

Dry powder

Carbon dioxide

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

In the event of fire the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Phosphorus oxides (e.g. phosphoruspentoxide)

Sulfur oxide

Silicon dioxide

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

Do not inhale explosion and/or combustion gases.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Use personal protection.

High risk of slipping due to leakage/spillage of product.

For emergency responders

Use personal protective clothing.

Use personal protection.

Forms slippery surfaces with water.
High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Flush away residues with water.
Use chemical neutralizers.
After taking up the material dispose according to regulation.

6.4. Reference to other sections

Informations for safe handling see chapter 7.
Informations for personal protective equipment see chapter 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Open and handle container with care!
Take the usual precautions when handling with chemicals.

General protective measures

Avoid contact with eyes and skin

Hygiene measures

Provide washing facilities at place of work.
Keep away from food and drink.

Advice on protection against fire and explosion

The product is not combustible.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Provide alkali-resistant floor.
Keep only in original container.

Advice on storage compatibility

Do not store with acids.

Further information on storage conditions

Keep container tightly closed.
Keep locked up, out of reach of children
Protect from heat and direct solar radiation.
Do not keep at temperatures below -5°C.

Information on storage stability

Storage time: 5 years.

7.3. Specific end use(s)**Recommendation(s) for intended use**

no further

! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL-/PNEC-values

DNEL worker

CAS No	Substance name	Value	Code	Remark
6834-92-0	disodium metasilicate	6,22 mg/m ³	DNEL long-term inhalative (systemic)	
		1,49 mg/kg bw/day	DNEL long-term dermal (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
6834-92-0	disodium metasilicate	7,5 mg/l	PNEC aquatic, freshwater	
		1000 mg/l	PNEC sewage treatment plant (STP)	
7320-34-5	tetrapotassium pyrophosphate	50 mg/l	PNEC sewage treatment plant (STP)	
		0,05 mg/l	PNEC aquatic, freshwater	

! Additional advice

Occupational exposure limits: No relevant informations available.

8.2. Exposure controls

Hand protection

Gloves (alkali-resistant)

Glove material specification [make/type, thickness, permeation time/life]: Butyl, 0,5mm, >=8h.

Glove material specification [make/type, thickness, permeation time/life]: NBR, 0,35mm, >=8h.

Glove material specification [make/type, thickness]: NR, 0.5mm.

Eye protection

tightly fitting goggles

Limitation and surveillance of the environment

Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

Avoid penetration into the subsoil/soil.

Do not discharge into surface waters.

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

liquid

Colour

yellowish up to beige

Odour

odourless

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	13,1	20 °C			
boiling range	> 100 °C				

	Value	Temperature	at	Method	Remark
solidifying range	< -5 °C				
Flash point					No flash point below 100 °C.
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Self ignition temperature					not spontaneously flammable
Lower explosion limit	not relevant				
Upper explosion limit	not relevant				
Vapour pressure	ca. 23 hPa	20 °C			
Relative density	1,122 g/cm ³	20 °C			
Vapour density	not available				
Solubility in water					miscible
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	ca. -2				Value of tetrapotassium pyrophosphate
Decomposition temperature	>= 100 °C				
Viscosity	not determined				
Solvent content	0 %				
Vapourisation rate Water: 0.36 (ASTM D3539).					
Oxidising properties no					
Explosive properties no					
9.2. Other information The mixture is not classified as corrosive to metals. No further relevant informations available.					

! SECTION 10: Stability and reactivity**10.1. Reactivity**

Evolution of heat under influence of acids.
No further hazardous reactions known if used as directed.

10.2. Chemical stability

Stable at ambient temperature.

10.3. Possibility of hazardous reactions

Exothermic reaction with strong acids.
Reactions with light metals, with evolution of hydrogen.

10.4. Conditions to avoid

Heat and direct solar radiation.

10.5. Incompatible materials**! Substances to avoid**

Reactions with strong acids.
Reactions with light metals.
Corrodes aluminium.

10.6. Hazardous decomposition products

No decomposition if used as directed.

! SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 5000 mg/kg	rat	calculated	
LD50 acute dermal	> 5000 mg/kg		ATE (acute toxicity estimate)	
Skin irritation	irritant			
Eye irritation	risk of strong eye injuries			
Skin sensitization	non-sensitizing			

Specific target organ toxicity (single exposure)

The mixture is not classified as specific target organ toxicant (single exposure).

Specific target organ toxicity (repeated exposure)

The mixture is not classified as specific target organ toxicant (repeated exposure).

Aspiration hazard

The mixture is not classified as aspiration hazardous.

! Toxicity test (Additional information)

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.
disodium metasilicate : LD50(oral, rat): 1152 mg/kg .

Experiences made from practice

Has a degreasing effect on the skin.

! SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 26,8 mg/l		calculated	
Daphnia	EC50 26,9 mg/l		calculated	
Algae	EC50 26,6 mg/l		calculated	

12.2. Persistence and degradability

Physico-chemical degradability	100 %		Neutralization, pH-measurement	Alkaline properties can be eliminated up to 100% by neutralization.
Biological degradability	> 80 %	DOC decrease	calculated	readily degradable

12.3. Bioaccumulative potential

sodium cumenesulphonate: Bioaccumulation is improbable.
 potassium cumenesulphonate: Bioaccumulation is improbable.
 disodium metasilicate: Accumulation in organisms is not expected.
 tetrapotassium pyrophosphate: Bioaccumulation is improbable.
 Na-alkyl-PEG-ether ester of phosphoric acid: not available.
 fattyalkohol, C10-12, propoxylated, ethoxylated: not available.

12.4. Mobility in soil

sodium cumenesulphonate: Adsorption on soil is not expected.
 potassium cumenesulphonate: Adsorption on soil is not expected.
 tetrapotassium pyrophosphate: moderately mobile in soil (Koc: ~150).
 disodium metasilicate: not available.
 Na-alkyl-PEG-ether ester of phosphoric acid: not available.
 fattyalkohol, C10-12, propoxylated, ethoxylated: not available.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

12.6. Other adverse effects

No further relevant informations available.

Additional ecological information

	Value	Method	Remark
COD	287 mgO2/g	calculated	
AOX	The product does not contain any organically bound halogens according to the recipe.		

General regulation

The surfactants in our product meet the criteria for biodegradation as laid down in Annex III of the Regulation (EC) No 648/2004 on detergents.
 Acute aquatic environmental hazards: Aquatic Acute 3 H402: Harmful to aquatic life.
 The mixture is not classified as chronic hazardous to the aquatic environment.
 Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.	Name of waste
20 01 29*	detergents containing hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Do not dispose with household waste.
 Suitable for neutralization are acetic acid (60%, liquid) or citric acid (solid powder, crystallized) if a stainless steel bath is used.
 Product is allowed to discharge into sewage treatment plants, but in accordance with official regulations.

Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Recommended cleansing agent

Water

! SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

14.6. Special precautions for user
 no

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 not relevant

Land and inland navigation transport ADR/RID
 No dangerous goods as defined by these transport regulations.

Marine transport IMDG
 No hazardous material as defined by the prescriptions.

Air transport ICAO/IATA-DGR
 No hazardous material as defined by the prescriptions.

! SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Authorizations**

not relevant

! Application restrictions

Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3 - not relevant if used as directed.

Other regulations (EU)

Regulation (EC) No 648/2004 (Detergents regulation).

Directive 2012/18/EU, Annex I: not mentioned.

VOC standard**VOC content** 0 %**15.2. Chemical Safety Assessment**

For this mixture a chemical safety assessment were not carried out.

! SECTION 16: Other information**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

Further information

These data are given according to our actual knowledge about this product. This data sheet does not correspond to an assurance by virtue of a contract for properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.6

! Sources of key data usedEuropean Chemicals Agency, <http://echa.europa.eu/>.

Informations from our suppliers.

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H412 Harmful to aquatic life with long lasting effects.