

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Swiss antimicrobial expertise
since 1935

Article No.: 2019
Print date: 02.06.2020
Version: 5

Sanitized® T 20-19
Revision date: 14.05.2020
Issue date: 16.01.2017

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

1.1. Product identifier

Article No. (manufacturer/supplier): 2019
Trade name/designation: Sanitized® T 20-19
Additive for textile industry

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

Relevant identified uses

Antimicrobial additive

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

SANITIZED AG

Lyssachstrasse 95
CH-3401 Burgdorf

Telephone: +41 (0) 34 427 16 16
Telefax: +41 (0) 34 427 16 19
www.sanitized.com

Department responsible for information:

Safety & Regulation

E-mail

regulatory@sanitized.com

importer

SANITIZED (Europe) S.à.r.l.

13 rue de 17 Novembre
FR-68100 Mulhouse

Telephone: +33 (0) 389 45 70 75
Telefax: See fax no of the supplier
E-mail: See E-mail of the supplier

1.4. Emergency telephone number, Phone No 24h x 7d

Case of intoxication:

Transportation emergency:

International Swiss Tox-Center: +41 44 251 51 51 | GBK / Infotrac, ID 106460: +49 61 328 44 63

Australia: +61-280735031 | China:

+860532-83889090

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Corr. 1 / H314

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Eye Dam. 1 / H318

Serious eye damage/eye irritation

Causes serious eye damage.

Skin Sens. 1 / H317

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Aquatic Acute 1 / H400

Hazardous to the aquatic environment

Very toxic to aquatic organisms.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

Hazard pictograms



Danger

Hazard statements

H314

Causes severe skin burns and eye damage.

H317

May cause an allergic skin reaction.

H400

Very toxic to aquatic organisms.

Precautionary Statements

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352

IF ON SKIN: Wash with plenty of soap and 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.

P501

Dispose of contents/container to industrial incineration plant.

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Hazard components for labelling

Quaternary ammonium-silane
Methanol

Supplemental hazard information

not applicable

2.3. **Other hazards**

No information available.

SECTION 3: Composition / information on ingredients

3.2. **Mixtures**

Description:
Antimicrobial
mixture

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

EC No.	REACH No.	Wt %
CAS No.	Designation	
INDEX No.	classification: // Remark	
255-451-8		
41591-87-1	Quaternary ammonium-silane Skin Corr. 1 H314 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Acute 1 H400	25 - 50
200-659-6		
67-56-1	Methanol	< 0.5
603-001-00-X	Flam. Liq. 2 H225 / Acute Tox. 3 H331 / Acute Tox. 3 H311 / Acute Tox. 3 H301 / STOT SE 1 H370 Specific concentration limit (SCL): STOT SE 1 H370 >= 10 / STOT SE 2 H371 >= 3	

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. **Description of first aid measures**

General information

In all cases of doubt, or when symptoms persist, seek medical advice. If unconscious place in recovery position and seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Keep eyelids open, wash out with plenty of clean, fresh water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

Special treatment

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Foam, Carbon dioxide, Extinguishing powder

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Dispose of waste according to applicable legislation.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use personal protection equipment.

Advices on safe handling

Avoid contact with eyes and skin. Avoid breathing dust/fume/gas/mist/vapours/spray. Provide for sufficient ventilation; if possible use resp. install internal exhaust systems.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Take off immediately all contaminated clothing. Thorough skin-cleansing after handling the product.

Further information

No special fire protection measures are necessary.

Further information

Protect from sunlight.

7.2. Conditions for safe storage, including any incompatibilities

Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Keep/Store only in original container.

Requirements for storage rooms and vessels

Keep/Store only in original container. Keep locked up.

Hints on joint storage

Do not store together with: Alkali (lye), Oxidizing agent, Reducing agent

Further information on storage conditions

Store in a well-ventilated and dry room at temperatures between 10 °C and 30 °C. Protect from heat and direct sunlight.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

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Methanol
INDEX No. 603-001-00-X / EC No. 200-659-6 / CAS No. 67-56-1
TWA: 266 mg/m³; 200 ppm
STEL: 333 mg/m³; 250 ppm

Additional information

TWA : long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

8.2. Exposure controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Swiss Youth Protection Regulation (ArGV 5; SR 822.115): Young persons up to the age of 18 are not allowed to get in contact with or be exposed to this preparation in the course of their work unless the Federal Office for Professional Education and Technology (BBT) or the State Secretariat for Economic Affairs (SECO) has granted an exception.

Personal protection equipment

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)
Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Eye/face protection

Wear closed protection glasses.

Body protection

Wear suitable protective clothing.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser. Immediately remove any contaminated clothing, shoes or stockings.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state: Liquid
Colour: light yellow

Odour: characteristic

Odour threshold: not applicable

pH at 20 °C: 6.9

Melting point/freezing point: not applicable

Initial boiling point and boiling range: 200 °C

Flash point: 64 °C
Method: DIN 53213

Evaporation rate: not applicable

flammability

Burning time (s): not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit: not determined

Upper explosion limit: not determined

Vapour pressure at 20 °C: not determined

Vapour density: not applicable

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Relative density:	
Density at 20 °C:	1.01 g/cm³
Solubility(ies):	
Water solubility (g/L) at 20 °C:	partially soluble
Partition coefficient: n-octanol/water:	see section 12
Auto-ignition temperature:	275 °C
Decomposition temperature:	not applicable
Viscosity at 20 °C:	56 mPa*s
Explosive properties:	not applicable
Oxidising properties:	not applicable
9.2. Other information	
Solid content (%):	43.50 Wt %
solvent content:	
Organic solvents::	0 Wt %
Water:	0 Wt %
No data available	

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures.

SECTION 11: Toxicological information

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

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

Sanitized® T 20-19 Additive for textile industry

oral, LD50, Rat: > 2000 mg/kg

Method: OECD 423

dermal, LD50, Rat: > 2000 mg/kg

Quaternary ammonium-silane

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rat: > 2000 mg/kg

inhalative (vapours), LC50, Rat: > 2 mg/l (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes severe skin burns and eye damage.

Sanitized® T 20-19 Additive for textile industry

Skin

Causes severe skin burns and eye damage.

eyes

Causes serious eye damage.

Quaternary ammonium-silane

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Skin
Causes severe skin burns and eye damage.
eyes
Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

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Skin, Guinea pig:

Method: OECD 406

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

Carcinogenicity

No indications of human carcinogenicity exist.

Reproductive toxicity

No indications of human reproductive toxicity exist.

Quaternary ammonium-silane

Germ cell mutagenicity; evaluation: No indications of human germ cell mutagenicity exist.

Carcinogenicity; evaluation: No indication of human carcinogenicity.

Reproductive toxicity; evaluation: No indications of human reproductive toxicity exist.

STOT-single exposure; STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark:

There is no information available on the preparation itself .

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic organisms.

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Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1.3 mg/l (96 h)

Method: OECD 203

Very toxic to aquatic organisms.

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 0.29 mg/l (48 h)

Method: OECD 202

Very toxic to aquatic organisms.

Bacteria toxicity, NOEC: 32 mg/l (3 h); evaluation: Respiratory inhibition of municipal activated sludge.

Method: OECD 209

Bacteria toxicity, EC50: 140 mg/l (3 h); evaluation: Respiratory inhibition of municipal activated sludge.

Method: OECD 209

Quaternary ammonium-silane

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1.73 mg/l (96 h)

Long-term Ecotoxicity

Toxicological data are not available.

12.2. Persistence and degradability

Sanitized® T 20-19 Additive for textile industry

: > 76 % (6 D); evaluation: Readily biodegradable (according to OECD criteria).

Method: OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A

12.3. Bioaccumulative potential

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Toxicological data are not available.

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. **Mobility in soil**

Toxicological data are not available.

12.5. **Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. **Other adverse effects**

No information available.

SECTION 13: Disposal considerations

13.1. **Waste treatment methods**

Appropriate disposal / Product

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

200129* Detergents containing hazardous substances

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package

Handle contaminated packages in the same way as the substance itself.

Additional information

Observe in addition any national regulations!

SECTION 14: Transport information

14.1. **UN number**

UN 1760

14.2. **UN proper shipping name**

Land transport (ADR/RID):

Corrosive liquid, n.o.s.
(Quaternary ammonium-silane)

Sea transport (IMDG):

CORROSIVE LIQUID, N.O.S.
(Quaternary ammonium-silane)

Air transport (ICAO-TI / IATA-DGR):

Corrosive liquid, n.o.s.
(Quaternary ammonium-silane)

14.3. **Transport hazard class(es)**

8

14.4. **Packing group**

II

14.5. **Environmental hazards**

Land transport (ADR/RID)

UMWELTGEFÄHRDEND

Marine pollutant

p

14.6. **Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

tunnel restriction code

E

Sea transport (IMDG)

EmS-No.

F-A, S-B

14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code**

No transport as bulk according IBC - Code.

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SECTION 15: Regulatory information

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

Swiss Youth Protection Regulation (ArGV 5; SR 822.115): Young persons up to the age of 18 are not allowed to get in contact with or be exposed to this preparation in the course of their work unless the Federal Office for Professional Education and Technology (BBT) or the State Secretariat for Economic Affairs (SECO) has granted an exception.

EU legislation

Regulation (EU) No. 528/2012 on biocides

biocidal product

biocide, active substance

Quaternary ammonium-silane 400 g/kg

Input 0.2 - 1.0 %

Biocide authorizations

FR: 53441

DE: N-42566

Use

Main group 2: Preservatives

Product-type 9: Fibre, leather, rubber and polymerised materials preservatives

Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): 0.0

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
200-659-6 67-56-1	Methanol	

SECTION 16: Other information

Full text of classification in section 3:

Skin Corr. 1 / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.
Acute Tox. 3 / H311	Acute toxicity (dermal)	Toxic in contact with skin.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
STOT SE 1 / H370	STOT-single exposure	Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1	Skin corrosion/irritation	Calculation method.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Aquatic Acute 1	Hazardous to the aquatic environment	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic

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DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.