

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1 Product identifier

Trade name	Substance name	Index Number	CAS number	REACH Registration No
Zonitise Hand Santiser	Mixture	N/A	N/A	N/A

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

Use of the Substance/Mixture	<p>This product may be used as a biocidal substance in accordance with EU Biocides Regulation 528/2012 (EU BPR) if the appropriate local authorisation/notification has been obtained, where applicable. See section 15.1</p> <p>Active ingredient: Didecyldimethylammonium chloride(DDAC) (CAS No. 7173-51-5)</p> <p>Product Type 1: Human hygiene</p>
Exposure scenarios	There are no exposure scenarios currently available or required specifically for the product.
Uses advised against	At this time, we do not yet have information on advised against uses

1.3 Details of the supplier of the safety data sheet

Company Name and Address Zonitise 141 Moorgate London EC2m 6TX	Telephone Fax Email Address of Competent Person Responsible for the SDS	0330 700 6060 enquiries@zonitise.com
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1.4 Emergency telephone number

Emergency telephone number	03307006060 - Not 24 hours
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SECTION 2: HAZARDS IDENTIFICATION
2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

Classification	Hazard statements
Physical and chemical hazards Not classified	None
Human health Not classified	None
Potential environmental effects Not Classified	None
Most important adverse effects	
Human health	See section 11 for toxicological information.
Physical and chemical hazards	See section 9 for physicochemical information.
Potential environmental effects	See section 12 for environmental information.

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

Hazard Pictogram(s)	None
Signal word(s)	None
Hazard statement(s)	None
Precautionary statement(s)	
Prevention	None
Response	None
Disposal	None
Other labelling information: N/A	
Further information	N/A
2.3. Other hazards	
	For Results of PBT and vPvB assessment see section 12.5

SECTION 3: COMPOSITIONAL INFORMATION ON INGREDIENTS
3.1. Mixtures

Chemical Nature		Water based Gel		
Hazardous components		Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
			Hazard class / Hazard category	Hazard statements
Didecyldimethylammonium chloride (DDAC)		0.1-1.0%	Acute Tox. 3 Skin Corr. 1B Aq. Acute Aq. Chronic	H301 H314 H400 H410
Index No	612-131-00-6			
CAS No.	7173-51-5			
EC No.	230-525-2			
REACH Registration No	01-2119945987-15-XXXX			
Propan-2-ol		0.1-1.0%	Flam. Liq. 2 Eye Irrit. 2 STOT SE. 3	H225 H319 H336
Index No	603-117-00-0			
CAS No.	67-63-0			
EC No.	200-661-7			
REACH Registration No	01-2119457558-25-XXXX			
For the full text of the H-Statements mentioned in this Section, see Section 16.				

SECTION 4: FIRST AID MEASURES
4.1. Description of first aid measures

General advice	You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 111 and is available at all times. Have this SDS with you when you call.
Inhalation of Vapour	First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
Eye contact	Rinse immediately with plenty of water and seek medical advice.
Skin contact	Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed
Ingestion	Call a poison control centre or doctor for treatment advice. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
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.

SECTION 5: FIREFIGHTING MEASURES
5.1. Extinguishing media

Suitable extinguishing media	Foam, Sand, Dry powder, Water spray, Carbon dioxide (CO ₂). The product itself is combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	None known

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire fighting	None Known
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5.3. Advice for fire-fighters

Special protective equipment for fire-fighters	In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
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Section 5.3 Advice for fire-fighters Continued

Further information	<p>Evacuate personnel to safe areas. Evacuate personnel and keep upwind of fire.</p> <p>Keep containers and surroundings cool with water spray.</p> <p>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.</p>
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SECTION 6: ACCIDENTAL RELEASE MEASURES
Methods and materials for containment and cleaning up

Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include no specific manufacturer recommendations. Use impermeable gloves with care. Eye/face protective equipment should comprise, as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the below (section 8). Stop leak if safe to do so, and contain spill. Absorb onto sand or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry

6.2 Reference to other sections

See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: HANDLING AND STORAGE
7.1. Precautions for safe handling

Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

7.2. Conditions for safe storage, including any incompatibilities

Store packages of this product in a cool place. Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1. Control parameters
Information on Component: Propan-2-ol CAS-No. 67-63-0
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

Type of Application (Use): Workers Exposure routes: Skin contact Health Effect: Acute - systemic effects	No information available.
Type of Application (Use): Workers Exposure routes: Skin contact Health Effect: Long-term - systemic effects	No information available.
Type of Application (Use): Workers Exposure routes: Inhalation Health Effect: Acute - systemic effects	No information available.
Type of Application (Use): Workers Exposure routes: Inhalation Health Effect: Long-term - systemic effects	No information available.

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL) Continued	
Type of Application (Use): Consumers Exposure routes: Skin contact Health Effect: Acute - systemic effects	No information available.
Type of Application (Use): Consumers Exposure routes: Inhalation Health Effect: Acute - systemic effects	No information available.
Type of Application (Use): Consumers Exposure routes: Skin contact Health Effect: Long-term - systemic effects	319 mg/kg/day
Type of Application (Use): Consumers Exposure routes: Inhalation Health Effect: Long-term - systemic effects	89 mg/m ³
Type of Application (Use): Consumers Exposure routes: Ingestion Health Effect: Long-term - systemic effects	26 mg/kg/day
Predicted No Effect Concentration (PNEC)	
Fresh water	140.9 mg/L
Marine water	140.9 mg/L
Intermittent releases	140.9 mg/L
Sewage treatment plant (STP)	2.251 g/L

Other Occupational Exposure Limit Values	
EU ELV, Short Term Exposure Limit (STEL):	WEL: 400 ppm, 999mg/m ³
EH40 WEL, Time Weighted Average (TWA): Gas and aerosol mists.	WEL: 500 ppm, 1250mg/m ³
EH40 WEL, Short Term Exposure Limit (STEL): Gas and aerosol mists.	None
ELV (IE), Time Weighted Average (TWA):	None
ELV (IE), Short Term Exposure Limit (STEL):	None

8.2. Exposure controls	
<p>No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems</p> <p>Appropriate engineering controls Ensure adequate ventilation, especially in confined areas. Refer to protective measures listed in sections 7 and 8.</p>	
Personal protective equipment	
Advice	Avoid exposure - obtain special instructions before use.
Respiratory protection	
Advice	Usually, no respirator is necessary when using this product. However, if you have any doubts consult the UK Standards
Hand protection	
Advice	Impervious gloves <ul style="list-style-type: none"> • Material: Neoprene gloves • Material: Polyvinyl chloride - PVC
Eye protection	
Advice	Eye protection such as protective glasses or goggles is recommended when this product is being used.
Skin and body protection	
Advice	The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary
Environmental exposure controls	
General Advice	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
9.1. Information on basic physical and chemical properties

Appearance	Liquid	Colour	Colourless or Slightly yellow colour
Odour	Characteristic	Vapour pressure	No data available
Odour Threshold	No data available	Relative vapour density	No data available
pH	4-5	Relative Density	1.02g/cm ³ (20°C)
Melting Point/ Freezing Point	No data available	Water solubility	Completely miscible
Initial Boiling Point and boiling range	No data available	Partition coefficient: n-octanol/water	No data available
Flash point	No data available	Auto-ignition temperature	No data available
Evaporation rate	No data available	Decomposition temperature	Stable under normal conditions. Decomposes on heating.
Flammability (solid gas)	No data available	Viscosity dynamic	No data available
Upper explosion limit	No data available	Explosive properties	Product is not explosive
Lower explosion limit	No data available	Oxidising properties	No data available

9.2 Other information

None

SECTION 10: STABILITY AND REACTIVITY	
10.1 Reactivity	
Advice	Stable under recommended storage conditions. Decomposes on heating.
10.2 Chemical stability	
Advice	Stable under normal conditions. Decomposes on heating.
10.3 Possibility of hazardous reaction	
Hazardous reactions	No data available
10.4 Conditions to avoid	
Conditions to avoid	Stable under normal conditions.
Thermal decomposition	Decomposes on heating.
10.5 Incompatible materials	
Materials to avoid	No information available
10.6 Hazardous decomposition products	
Hazardous decomposition products	No data available

SECTION 11: TOXICOLOGICAL INFORMATION	
11.1 Information on toxicological effects	
Information on Product: Zonitise Hand Sanitiser	
Acute toxicity	
Oral	Please find this information in the listing of the component/components below in this MSDS
Inhalation	No data available
Dermal	Please find this information in the listing of the component/components below in this MSDS
Irritation	
Skin Result	Please find this information in the listing of the component/components below in this MSDS
Eyes Result	Please find this information in the listing of the component/components below in this MSDS
Sensitisation	
Result	Please find this information in the listing of the component/components below in this MSDS
CMR effects	
Carcinogenicity	Please find this information in the listing of the component/components below in this MSDS
Mutagenicity	Please find this information in the listing of the component/components below in this MSDS
Teratogenicity	Please find this information in the listing of the component/components below in this MSDS
Reproductive toxicity	Please find this information in the listing of the component/components below in this MSDS
Specific target organ toxicity	
Single exposure	
Remark	The substance or mixture is not classified as a specific target organ toxicant single exposure
Repeated exposure	
Remark	The substance or mixture is not classified as a specific target organ toxicant repeated exposure
Other toxic properties	
Aspiration risk	
Remark	No aspiration toxicity classification

Information on component: Propan-2-ol CAS-No. 67-63-0	
Acute toxicity	
Acute oral	LD 50: 4700 mg/kg (rat)
Inhalation	No data available
Dermal	LD 50 >2000 mg/kg (rabbit)
Irritation	
Skin	
Result	Not irritating
Eyes	
Result	Could cause serious eye damage
Sensitisation	
Result	Not sensitising
CMR effects	
Carcinogenicity	No information available
Mutagenicity	No information available
Teratogenicity	No information available
Reproductive toxicity	No information available
Specific target organ toxicity	
Single exposure	
Remark	STOT SE 3 – H336 May cause drowsiness or dizziness Target Organs – Central nervous system
Repeated exposure	
Remark	Not classified as a specific target organ toxicant after repeated exposure.
Other toxic properties	
Aspiration risk	
Remark	No aspiration toxicity classification
Human experience	
<p>General Information: The severity of the symptoms described will vary dependant on the concentration and the length of exposure. Excessive exposures may affect human health, as follows:</p> <p>Inhalation A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.</p> <p>Skin contact Prolonged contact may cause dryness of the skin.</p> <p>Eye contact Irritating to eyes</p> <p>Ingestion May cause irritation. May cause drowsiness or dizziness. Nausea, vomiting.</p>	

Information on components	
Didecyl dimethyl ammonium chloride CAS-No. 7173-51-5	
Acute toxicity	
Acute oral	LD 50 238 mg/kg (rat)
Inhalation	No data
Dermal	LD 50 3342 mg/kg (rabbit)
Irritation	
Skin	
Result	No data available
Eyes	
Result	No data available
Sensitisation	
Result	No data available
CMR effects	
Carcinogenicity	No data available
Mutagenicity	No data available
Teratogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity	
Single exposure	
Remark	No data available
Repeated exposure	
Remark	No data available
Other toxic properties	
Aspiration risk	
Remark	No data available
Human experience	
<p>Excessive exposures may affect human health, as follows:</p> <p>Inhalation Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.</p> <p>Skin contact <i>Skin</i>: No further information available</p> <p>Eye contact <i>Eyes</i>: No information available</p> <p>Ingestion <i>Gastrointestinal tract</i>: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.</p>	

SECTION 12: ECOLOGICAL INFORMATION	
12.1 Toxicity	
Information on component: Propan-2-ol CAS-No. 67-63-0	
Acute toxicity	
Fish	LC ₅₀ , 48 hour: >100 mg/l, Leuciscus idus (Golden orfe)
Toxicity to Daphnia and other invertebrates	EC ₅₀ , 48 hour: >100 mg/l, Daphnia magna
Algae	No data available
Bacteria	No data available
Information on component Didecyl dimethyl ammonium chloride CAS-No. 7173-51-5	
Acute toxicity	
Fish	LC50 96h - Brachydanio rerio (zebrafish) - 0.49 mg/l - 96 h
Toxicity to Daphnia and other invertebrates	EC ₅₀ , 48 hour: >100 mg/l, Daphnia magna
Algae	No data available
12.2 Persistence and Degradability	
Information on component Propan-2-ol CAS-No. 67-63-0	
Biodegradability	
Result	The product is readily biodegradable.
Information on components Didecyl dimethyl ammonium chloride CAS-No. 7173-51-5	
Biodegradability	
Result	The product is readily biodegradable.
12.3 Bioaccumulation Potential	
Information on component: Propan-2-ol CAS-No. 67-63-0	
Bioaccumulation	
Result	The product does not contain any substances expected to be bioaccumulating.
Information on component: Didecyl dimethyl ammonium chloride CAS-No. 7173-51-5	
Bioaccumulation	
Result	No data available

12.4 Mobility in soil	
Information on components Propan-2-ol CAS-No. 67-63-0	
Mobility	
Soil	The product is water-soluble and may spread in water systems.
Information on components Didecyl dimethyl ammonium chloride CAS-No. 7173-51-5	
Mobility	
Soil	No data available.
12.5 Results of PBT and vPvB assessment	
Information on components	
Results of PBT and vPvB assessment	
Result	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). / This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).
12.6 Other adverse effects	
Additional ecological Information	
No data is available on the product itself.	
Result	The product contains materials that are harmful to the environment. Do not flush into surface water or sanitary sewers Avoid subsoil penetration

SECTION 13: DISPOSAL CONSIDERATION**13.1 Waste treatment methods**

Product	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
Contaminated packaging	Empty remaining contents thoroughly. They can be recycled after thorough cleaning. Packaging that cannot be cleaned are to be disposed of in the same manner as the product. Dispose of in accordance with local regulations.
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.

SECTION 14: TRANSPORT INFORMATION	
14.1 UN Number	
None	
14.2 Proper shipping name	
ADR	None
RID	None
IMDG	None
IATA	None
14.3 transport hazard class(es)	
ADR (Labels, Classification code, Hazard Identification No., Tunnel restriction code)	None
RID (Labels, Classification code, Hazard Identification No.)	None
IMDG (Labels EmS)	None
IATA	None
14.4 Packing Group	
ADR	None
RID	None
IMDG	None
IATA	None
14.5 Environmental Hazards	
ADR Labeling according to 5.2.1.8	None
RID Labeling according to 5.2.1.8	None
IMDG Labeling according to 5.2.1.6.3	None
IMDG Classification as environmentally hazardous according to 2.9.3 as	None
IATA	None
14.6 Special precaution for user	
Not applicable	
14.7 Transport in Bulk according to annex II/MARPOL 73/78 and IBC code	
IMDG	Not applicable

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture**Biocidal Product Regulations (EU) No. 528/2012**

This product complies with the requirements of the EU regulations as disinfectant for human hygiene, PT 1.

No authorisations or exemptions are currently required for placing the product on the market in the EU.

Notifications are required in some EU countries. The product has been notified to the following member states competent authorities or can otherwise be placed on the market in the countries as indicated below.

United Kingdom: Notifications are not required in the UK

Republic of Ireland: Notification PCS 99687

Germany: N-85350

UFI Code: U8XT-K00P-CU0W-GM99

EU Directives:

Dangerous preparations directive (67/548/EEC) (1999/45/EC)

Safety Data sheets directive (2001/58/EC)

REACH directive(2004/58/EC)

CLP regulations (2008/1272/EC)

Biocidal product regulations (EU) 528/2012

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for active component
Didecyldimethylammonium chloride(DDAC) CAS No. 7173-51-5

SECTION 16: OTHER INFORMATION
Issue information

First issued 10/02/2020 Authorised by K Ferguson	Last revised 04/06/2020 Issue 2 Authorised by K. Ferguson
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Significant changes at this revision

Re formulated. Non ionic surfactant removed, Active biocide DDAC increased. No change in product classification

Full text of H- phrases for ingredients in section 2 and 3

H225 Highly flammable liquid and vapour
 H301: Toxic if swallowed.
 H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H318: Causes serious eye damage.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects

Since the users working conditions are not known by us, the information on this safety data sheets is based on our current level of knowledge and on national and community regulations

The product must not be used for any purpose other than those specified in heading 1 without first obtaining written handling instructions

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirement and local regulations.

The information given on this data sheet must be regarded as relating to the safety requirements relating to our products and not a guarantee of its properties

Observe all National, Federal and Local laws / Bylaws with regard to the use of this product. Always check with relevant regulatory authorities before use

Disclaimer

Information on this form is furnished in compliance with current legislation. It is the responsibility of the recipient to pass on this information to relevant departments/persons involved. Zonitise Limited assumes no responsibility for injury or death resulting from the use/misuse of this product by the recipient and/or third persons, however caused. The user, bailee and their respective employees and agents assume all such risks if reasonable safety procedures are not adhered to.