

1 IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY UNDERTAKING			
1.1 Product identifier			
	Substance name Mixture	Index Number N/A	CAS number N/A
			Registration number 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 product in accordance with Directive 98/8/EC, if the appropriate local authorisation have been obtained. Relevant product types</p> <p>Type 2: Private and public health area disinfectants and other biocidal products</p> <p>Type 3: Veterinary hygiene biocidal products</p> <p>Type 4: Food and feed area disinfectants</p> <p>DDAC has notified as a biocidal active ingredient under the terms of the Review Regulation 1896/2000/EEC of the European Biocidal Products Directive 98/8/EEC (BPD) and 528/12/EU (BPR)</p>		
Exposure scenarios	<p>There are no exposure scenarios currently available or required specifically for the product. Only those for the main component (31% sodium chlorite) that are applicable to applications the product is intended for are included in Annex 1 of this data sheet.</p>		
Uses advised against	<p>At this time, we do not yet have information on advised against uses</p>		
1.3 Details of the supplier of the safety data sheet			
Company Name and Address	Telephone	0845 604 8280	
Aero Healthcare Ltd	Fax	0845 604 8281	
One the Business Park			
Maydwell Avenue, Slinfold			
Horsham, RH13 0AS			
1.4 Emergency telephone number			
Emergency telephone number	0845 604 8280 Not 24 hours		

2 HAZARD 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	See section 9 for physicochemical information.
Most important adverse effects	
Human health	See section 11 for toxicological information.
Physical and chemical hazards	Contact with acid liberates very toxic gas 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 symbols	none	
Signal word	none	
Hazard statement(s)	none	none
Precautionary statement		
Prevention	none	none
Response	none	none
Disposal	none	none
Other labelling information		
Further information	N/A	
Other labelling information		
	none	
2.3. Other hazards		
	For Results of PBT and vPvB assessment see section 12.5	

3 COMPOSITIONAL INFORMATION ON INGREDIENTS				
3.1. Substances Not applicable				
3.2. Mixtures				
Chemical Nature		Aqueous solution		
Hazardous components		Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
			Hazard class / Hazard category	Hazard statements
C9-11 Alcohol Ethoxylate with 12 moles of ethoxylation		0.1-1.0%	Acute Tox. 4: H302; Eye Dam. 1:	
Index No	Not available			H302 H318
Cas No.	68439-46-3			
Ec No.	Not available			
Registration No	01-2119980051-45-0000			
Propan-2-ol		0.1-1.0%	Flam. Liquid 2 Eye Irrit. 2 STOT Single Exp. 3	
Index No	603-117-00-0			H225 H319 H336
Cas No.	67-63-0			
Ec No.	200-661-7			
Registration No	01-2119457558-25-XXXX			
Didecyldimethylammonium chloride		<0.1%	Acute Tox. 3 Skin Corr. 1B H314	
Index No				H301 H314 H410
Cas No.	7173-51-5			
Ec No.	230-525-2			
Registration No	01-2119945987-15-XXXX			
For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.				

4 FIRST AID	
4.1. Description of first aid measures	
General advice	Take off all contaminated clothing immediately. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.
Inhalation of Vapour	Move to fresh air. If not breathing, give artificial respiration. Call a poison control centre or doctor for treatment advice.
Eye contact	Rinse immediately with plenty of water and seek medical advice.
Skin contact	Take off contaminated clothing and shoes immediately. Call a poison control centre or doctor for treatment advice. Wash off immediately with soap and plenty of water.
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	Probable mucosal damage may contraindicate the use of gastric lavage. 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	The product itself is combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment., Foam, Sand, Dry powder, Water spray
Unsuitable extinguishing media	Carbon dioxide (CO ₂)
5.2. Special hazards arising from the substance or mixture	
Specific hazards during fire fighting	<p>Drying of this product on clothing or combustible materials may cause fire.</p> <p>Hazardous decomposition products formed under fire conditions. acrid fumes, Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Nitrogen oxides (NO_x) Carbon monoxide (CO) Hydrogen cyanide (HCN) (see also section 10)</p>
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.
Further information	Evacuate personnel to safe areas. Evacuate personnel and keep upwind of fire. Keep containers and surroundings cool with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6 ACCIDENTAL RELEASE	
6.1. Personal precautions, protective equipment and emergency procedures	
Personal precautions	Evacuate personnel to safe areas. Wear personal protective equipment. Avoid contact with the skin and the eyes.
6.2. Environmental precautions	
Environmental precautions	Prevent material from entering sewers, waterways, or low areas. Do not allow to dry. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3. Methods and materials for containment and cleaning up	
Methods and materials for containment and cleaning up	Dilute with water. Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water. Or where applicable absorb with liquid-binding non-combustible material (sand, diatomite, acid binders, and universal binders). Keep in suitable, closed containers for disposal. Flush away residuals with plenty of water.
Further information	Treat recovered material as described in the section 13 "Disposal considerations".
6.4. Reference to other sections	
See Section 1 for emergency contact information. See Section 8 for information on personal protective equipment. See Section 13 for waste treatment information.	
7 Handling and storage	
7.1. Precautions for safe handling	
Advice on safe handling	Avoid contact with skin, eyes and clothing. Avoid formation of aerosol. Avoid inhalation of vapour or mist. Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed.
Hygiene measures	Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Provide adequate ventilation. Avoid contact with the skin and the eyes.

7.2. Conditions for safe storage, including any incompatibilities	
Requirements for storage areas and containers	Store in original container. Keep tightly closed in a dry, cool and well-ventilated place. Avoid heat, freezing and ultraviolet light. Do not allow to dry.
Advice on protection against fire and explosion	No specific advice
Further information on storage conditions	Keep container tightly closed. Keep in a well-ventilated place. Store in cool place.
Advice on common storage	Keep away from: Strong acids and oxidizing agents Keep away from food, drink and animal feeding stuffs.
7.3. Specific end use(s)	
Specific use(s)	No information available.
8 Exposure Controls / Personal Protection	
8.1. Control parameters	
Information on Component: Propan-2-ol CAS-No. 67-63-0	
UK. EH40 Workplace Exposure Limits (WELs)	Value type : Time Weighted Average (TWA): Value : 400 ppm Value : 999 mg/m ³
UK. EH40 Workplace Exposure Limits (WELs)	Value type : Short Term Exposure Limit (STEL): Value : 500 ppm Value : 1,250 mg/m ³

8.2. Exposure controls	
Appropriate engineering controls	
Ensure adequate ventilation, especially in confined areas. Refer to protective measures listed in sections 7 and 8.	
Personal protective equipment	
Advice	Avoid exposure - obtain special instructions before use.
Respiratory protection	
Advice	Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	
Advice	Impervious gloves : Material: Neoprene gloves : Material: Polyvinyl chloride - PVC
Eye protection	
Advice	Wear coverall chemical splash goggles. Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.
Skin and body protection	
Advice	Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, trousers, jacket, hood and boots.
Hygiene measures	
Advice	Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.
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.

9 PHYSICAL PROPERTIES			
9.1. Information on basic physical and chemical properties			
Form	Liquid	Relative vapour density	No data available
Colour	Colourless slight yellow colour	Relative Density	1.02g/ ³ cm(20°C)
Odour	Slight chlorine	Water solubility	Completely miscible
pH	7-9	Partition coefficient in n-octanol/water	No data available
9.1. Information on basic physical and chemical properties Continued			
Flash point	No data available	Auto ignition temperature	No data available
Evaporation rate	No data available	Thermal decomposition	Stable under normal conditions. Decomposes on heating.
Flammability (solid gas)	No data available	Viscosity dynamic	No data available
Upper explosion limit	No data available	Explosivity	Product is not explosive
Lower explosion limit	No data available	Oxidising properties	No data available
Vapour pressure	No data available		
9.2 Other information			
none			

10 STABILITY / 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	Contact with acids, organic materials, reducing agents and oxidizing agents will release toxic gases of chlorine and/or chlorine dioxide.
Hazardous decomposition products	Under fire conditions: acid fumes Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Nitrogen oxides (NO _x) Carbon monoxide (CO) Hydrogen cyanide (HCN)
10.4 Conditions to avoid	
Conditions to avoid	Stable under normal conditions. Decomposes on heating.
Thermal decomposition	Decomposes on heating.
10.5 Incompatible materials	
Materials to avoid	Strong acids and oxidizing agents Reducing agents Organic materials chlorinated compounds

11 TOXICOLOGICAL INFORMATION	
11.1 Information on toxicological effects	
Information on Product Hysan Gel	
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	
C9-11 Alcohol ethoxylate with 12MEO CAS-No. N/A	
Acute toxicity	
Acute oral	LD 50 <1500mg/kg (rat)
Inhalation	No data
Dermal	No data
Irritation	
Skin Result	No data
Eyes Result	No data
Sensitisation	
Result	No data
CMR effects	
Carcinogenicity	No data
Mutagenicity	No data
Teratogenicity	No data
Reproductive toxicity	No data
Specific target organ toxicity	
Single exposure	
No data	
Repeated exposure	
Remark	No data
Other toxic properties	
Aspiration risk	
Remark	No aspiration toxicity classification
Human experience	
Excessive exposures may affect human health, as follows:	
Inhalation	
<i>Respiratory system:</i> There may be irritation of the throat with a feeling of tightness in the chest.	
Skin contact	
<i>Skin:</i> There may be irritation and redness at the site of contact.	
Eye contact	
<i>Eyes:</i> There may be irritation and redness. The eyes may water profusely. There may be severe pain. May cause permanent damage.	
Ingestion	
<i>Gastrointestinal tract:</i> Nausea and stomach pain may occur. There may be vomiting.	

Information on component	
Propan-2-ol CAS-No. 67-63-0	
Acute toxicity	
Acute oral	LD 50 5280mg/kg (rat)
Inhalation	LD 50 4 hour 72.6mg/kg (rat) LD 50 8 hour 47.5mg/kg (rat)
Dermal	LD 50 12800 mg/kg (rabbit)
Irritation	
Skin	
Result	No effects (rabbit)
Eyes	Corrosive effects (rabbit)
Result	irritating to eyes
Sensitisation	
Result	Not sensitising (guinea pig Buehler test)
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	
No data	
Repeated exposure	
Remark	No data
Other toxic properties	
Aspiration risk	
Remark	No aspiration toxicity classification
Human experience	
Excessive exposures may affect human health, as follows:	
Inhalation	
<i>Respiratory system:</i> Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.	
Skin contact	
<i>Skin:</i> Prolonged skin contact may defat the skin and produce dermatitis	
Eye contact	
<i>Eyes:</i> There may be irritation and redness.	
Ingestion	
<i>Gastrointestinal tract:</i> Risk of product entering the lungs on vomiting after ingestion. Liver injury may occur	

Information on components	
Didecyl dimethyl ammonium chloride CAS-No. 7173-51-5	
Acute toxicity	
Acute oral	LD 50 84mg/kg (rat)
Inhalation	No data
Dermal	LD 50 3342 mg/kg (rabbit)
Irritation	
Skin	
Result	Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404)
Eyes	
Result	Corrosive effects no specific data Risk to serious damage to eyes
Sensitisation	
Result	in vivo assay - Guinea pig Result: Did not cause sensitisation on laboratory animals. (OECD Test Guideline 406)
CMR effects	
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
Mutagenicity	No data available
Teratogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity	
Single exposure	
	No data available
Repeated exposure	
Remark	No data available
Other toxic properties	
Aspiration risk	
Remark	No data available
Human experience	
Excessive exposures may affect human health, as follows:	
Inhalation	
<i>Respiratory system:</i> Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea	
Skin contact	

Skin: Discomfort, Irritation, Itching, Redness

Eye contact

Eyes: Excessive lachrymation, Damage

Ingestion

Gastrointestinal tract: Nausea, Pain, Weakness, Vomiting

Other information

Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level -
45.5 mg/kg RTECS: BP6560000

12 ECOLOGICAL INFORMATION	
12.1 Toxicity	
Information on component	C9-11 Alcohol ethoxylate with 12MEO CAS-No. N/A
Acute toxicity	
Fish	LC50 / 96 h / <105 mg/l
Toxicity to Daphnia and other invertebrates	No data available
Algae	No data available
Information on component	Propan-2-ol CAS-No. 67-63-0
Acute toxicity	
Fish	EC50 / 96 h / Pimephales promelas 9640 mg/l
Toxicity to Daphnia and other invertebrates	EC50 / 48 h / Daphnia magna (Water flea): 13299 mg/l
Algae	EC50 / 72 h / Desmodesmus subspicatus (green algae): >1 mg/l
Bacteria	EC10 18H Pseudomonas putida 5,175 mg/l Method : DIN 38412 EC50 activated sludge > 1,000 mg/l (Respiration inhibition of activated sludge)
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	EC50 / 48 h / Daphnia magna (Water flea): 0.294 mg/l
Algae	No data available

12.2 Persistence and Degradability	
Information on component	C9-11 Alcohol ethoxylate with 12MEO CAS-No. N/A
Biodegradability	
Result	The surfactants in this preparation complies 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 the detergent manufacturer..
Information on component	Propan-2-ol CAS-No. 67-63-0
Biodegradability	
Result	Biodegradation : 95 % Exposure time : 21 d. Readily biodegradable. Method: (OECD 301 E).
Information on components	Didecyl dimethyl ammonium chloride CAS-No. 7173-51-5
Biodegradability	
Result	aerobic - Exposure time 28 d Result: 69 % - Readily biodegradable. (OECD Test Guideline 301D)

12.3 Bioaccumulation Potential	
Information on component C9-11 Alcohol ethoxylate with 12MEO CAS-No. N/A	
Bioaccumulation	
Result	No data available
Information on component Propan-2-ol CAS-No. 67-63-0	
Bioaccumulation	
Information on component Didecyl dimethyl ammonium chloride CAS-No. 7173-51-	
Bioaccumulation	
Result	No data available
12.4 Mobility in soil	
Information on component C9-11 Alcohol ethoxylate with 12MEO CAS-No. N/A	
Mobility	
Soil	No data available. Water soluble
Information on components Propan-2-ol CAS-No. 67-63-0	
Mobility	
Soil	The product is mobile in water environment.
Information on components Didecyl dimethyl ammonium chloride CAS-No. 7173-51-5	
Mobility	
Soil	No data available. Water soluble
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

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.

14 TRANSPORT INFORMATION	
14.1 UN Number	
None	
14.2 Proper shipping name	
ADR	None
RID	None
IMDG	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
14.4 Packing Group	
ADR	None
RID	None
IMDG	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
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

15 REGULATORY INFORMATION	
15.1 Safety , health and environmental regulations/legislation specific for substance or mixture	
none	
15.2 Chemical safety assessment	
none.	
16 OTHER INFORMATION	
Issue information	
First issued 01/06/1999	Last revised 14/07/2015 Issue 6
Significant changes at this revision	
<p>Technical revision to comply with CLP and other regulations.</p> <p>Exposure limits for ingredients added</p> <p>Ecological section updated. Waste disposal consideration updated</p> <p>No significant change to level of risk or new data on safety has become available for the ingredients or product</p>	
Full text of R- phrases for ingredients in section 2 and 3	
<p>R22 - Harmful if swallowed</p> <p>R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed</p> <p>R34 - Causes burns</p> <p>R41 - Risk of serious damage to eyes</p> <p>R50 - Very toxic to aquatic organisms</p>	
Full text of H- phrases for ingredients in section 2 and 3	
<p>H225 Highly flammable liquid and vapour</p> <p>H302: Harmful if swallowed.</p> <p>H314: Causes severe skin burns and eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H373: May cause damage to organs through prolonged or repeated exposure</p> <p>H410: Very toxic to aquatic life with long lasting effects</p>	
Full text of H- phrases for ingredients in section 2 and 3 continued	
<p>EUH032: Contact with acids liberates very toxic gas.</p> <p>EUH071: Corrosive to the respiratory tract.</p>	

EU Directives	<p>Dangerous preparations directive (67/548/EEC) (1999/45/EC)</p> <p>Safety Data sheets directive (2001/58/EC) Biocides directive</p> <p>REACH directive(2004/58/EC)</p> <p>CLP regulations (2008/1272/EC)</p>
<p>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</p> <p>The product must not be used for any purpose other than those specified in heading 1 without first obtaining written handling instructions</p> <p>It is at all times the responsibility of the user to take all necessary measures to comply with legal requirement and local regulations.</p> <p>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</p> <p>Observe all National, Federal and Local laws / Bylaws with regard to the use of this product. Always check with relevant regulatory authorities before use</p> <p style="text-align: center;">Disclaimer</p> <p>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. Aero Healthcare 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.</p>	