

## Sporeclear Disinfectant Concentrate

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

#### 1.1. Product identifier

Sporeclear Disinfectant Concentrate

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

#### Use of the substance/mixture

Cleaning agent

Disinfectant concentrate

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Company name: Altos Medical Limited,  
The Innovation Centre, Sci-tech Daresbury  
Street: Keswick Lane, Cheshire, WA4 4FS  
Place: UK United Kindom  
Telephone: +4401925 607100  
e-mail: info@arcisaltos.com  
Internet: www.arcisbio.com

Company name: Hu-Friedy Mfg. Co., LLC.  
Zweigniederlassung Deutschland  
Street: Kleines Öschle 8  
Place: D-78532 Tuttlingen  
Telephone: 00800 48 37 43 39  
Telefax: 00800 48 37 43 40  
e-mail: info@hu-friedy.eu  
Internet: www.hu-friedy.eu

Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone number: INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
In England and Wales: NHS Direct - 0845 4647, In Scotland: NHS 24 - 08454 24 24 24

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1B

Carcinogenicity: Carc. 2

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Hazardous components which must be listed on the label

didecyldimethylammonium chloride

polyhexamethylene biguanide hydrochloride

quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides

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Signal word:

Danger

Pictograms:

GHS05-GHS08-GHS09



## Hazard statements

- H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H410 Very toxic to aquatic life with long lasting effects.

## Precautionary statements

- P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 Wash water and soap thoroughly after handling.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P273 Avoid release to the environment.

## Additional advice on labelling

The product is classified in accordance with Regulation (EC) No 1272/2008.

## 2.3. Other hazards

Not known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of the following substances with non-hazardous admixtures

#### Hazardous components

EC No	Chemical name	Quantity
CAS No		
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	1 - 10 %
67-63-0		
603-117-00-0	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
01-2119457558-25		
-	Alcohols, C6-12, ethoxylated	1 - 10 %
68439-45-2		
	Acute Tox. 4, Eye Dam. 1; H302 H318	
230-525-2	didecyldimethylammonium chloride	1 - 10 %
7173-51-5		
612-131-00-6	Acute Tox. 4, Skin Corr. 1B; H302 H314	
	polyhexamethylene biguanide hydrochloride	1 - 10 %
27083-27-8		
616-207-00-X	Carc. 2, Acute Tox. 4, STOT RE 1, Eye Dam. 1, Skin Sens. 1B, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H351 H302 H372 H318 H317 H400 H410	
264-151-6	quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	1 - 10 %
63449-41-2		
612-140-00-5	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1; H312 H302 H314 H400	

Full text of H and EUH statements: see section 16.

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### **General information**

Call a physician immediately.

##### **After inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

##### **After contact with skin**

Wash off thoroughly with water.

##### **After contact with eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

##### **After ingestion**

Rinse mouth. Consult a physician.

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

In the event of persistent symptoms receive medical treatment. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Causes burns. Causes serious eye damage.

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

Call a physician immediately. Treat symptoms.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Fire-extinguishing activities according to surrounding.

##### **Unsuitable extinguishing media**

None

#### 5.2. Special hazards arising from the substance or mixture

Not explosive.

In the event of fire the following can be released: Irritant/corrosive, flammable as well as toxic distillation gases/vapours. Keep away from heat and sources of ignition.

#### 5.3. Advice for firefighters

Use breathing apparatus with independent air supply.  
Protective suit.

##### **Additional information**

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

In case of vapour formation use respirator. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away noninvolved persons.

#### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

#### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).  
Shovel into suitable container for disposal.

#### 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).  
Information for disposal see section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### **Advice on safe handling**

Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke. Use personal protection

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equipment. Do not breathe vapours and aerosols. Obtain special instruction before use Do not handle until all safety precautions have been read and understood. Avoid contact with the skin and the eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

#### **Advice on storage compatibility**

Incompatible with: Acids and bases. Oxidizing agents, anionic surfactants.

#### **Further information on storage conditions**

Keep away from heat and sources of ignition.

### 7.3. Specific end use(s)

Cleaning agent

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

### 8.2. Exposure controls



#### **Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

#### **Protective and hygiene measures**

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Avoid contact with skin, eyes and clothing.

#### **Eye/face protection**

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

#### **Hand protection**

Protective gloves (EN 374) Recommended material [type, thickness, permeation time]: butyl rubber, 0,7 mm, protective index 6, corresponding to 480 minutes of permeation time according to EN 374.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

#### **Skin protection**

Long sleeved clothing (EN 368).

#### **Respiratory protection**

No personal respiratory protective equipment normally required.

In case of vapour formation use respirator.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:

Liquid

Colour:

Colourless - yellowish

Odour:

characteristic

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pH-Value:	3 - 5
Melting point:	0 °C
Initial boiling point and boiling range:	~ 100 °C
Flash point:	46 °C
Lower explosion limits:	n.d.
Upper explosion limits:	
Density (at 20 °C):	0,95 - 1,02 g/cm <sup>3</sup>
Water solubility: (at 20 °C)	Soluble
Solubility in other solvents:	No data available.
Ignition temperature:	n.d.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

### **9.2. Other information**

No data available.

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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No decomposition if stored and applied as directed.

### **10.2. Chemical stability**

Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**

Reactions with acids, alkalies and oxidizing agents

### **10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

### **10.5. Incompatible materials**

anionic surfactants

### **10.6. Hazardous decomposition products**

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute toxicity**

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

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## Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50	5050 mg/kg	Rat	
	dermal	LD50 mg/kg	12800	Rabbit	
68439-45-2	Alcohols, C6-12, ethoxylated				
	oral	ATE	500 mg/kg		
7173-51-5	didecyldimethylammonium chloride				
	oral	ATE	500 mg/kg		
27083-27-8	polyhexamethylene biguanide hydrochloride				
	oral	ATE	500 mg/kg		
63449-41-2	quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides				
	oral	ATE	500 mg/kg		
	dermal	ATE	1100 mg/kg		

## Irritation and corrosivity

Causes severe skin burns and eye damage.

## Sensitising effects

May cause an allergic skin reaction. (polyhexamethylene biguanide hydrochloride)

## STOT-single exposure

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

## Severe effects after repeated or prolonged exposure

May cause damage to organs through prolonged or repeated exposure.

## Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (polyhexamethylene biguanide hydrochloride)

## Aspiration hazard

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

## Practical experience

### Other observations

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Contact with eyes may cause irritation.

May cause sensitization of susceptible persons by inhalation.

## SECTION 12: Ecological information

### 12.1. Toxicity

No data available.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	Acute fish toxicity	LC50	> 1000 mg/l	96 h		
	Acute crustacea toxicity	EC50	> 1000 mg/l	48 h		

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

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### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

### Further information

Do not flush into surface water or sanitary sewer system.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

Where possible recycling is preferred to disposal.

#### Waste disposal number of waste from residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

#### Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

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

Packaging that cannot be cleaned should be disposed of like the product.

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## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number:

UN 3082

#### 14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(didecyldimethylammonium chloride, polyhexamethylene biguanide hydrochloride, quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides)

#### 14.3. Transport hazard class(es):

9

#### 14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Transport category:

3

Hazard No:

90

Tunnel restriction code:

E

### Inland waterways transport (ADN)

#### 14.1. UN number:

UN 3082

#### 14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(didecyldimethylammonium chloride, polyhexamethylene biguanide hydrochloride, quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides)

#### 14.3. Transport hazard class(es):

9

#### 14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

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Limited quantity: 5 L

### Marine transport (IMDG)

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Didecyldimethylammonium chloride, Polyhexamethylen-biguanide hydrochloride, Quaternary ammonium compounds, benzyl-C8-18 alkyldimethyl chlorides)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9



Special Provisions: 274, 335, 969

Limited quantity: 5 L

EmS: F-A, S-F

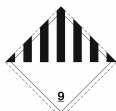
### Air transport (ICAO)

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Didecyldimethylammonium chloride, Polyhexamethylen-biguanide hydrochloride, Quaternary ammonium compounds, benzyl-C8-18 alkyldimethyl chlorides)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9



Special Provisions: A97 A158 A197

Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger: 964

IATA-max. quantity - Passenger: 450 L

IATA-packing instructions - Cargo: 964

IATA-max. quantity - Cargo: 450 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



### 14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

## SECTION 15: Regulatory information

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

#### EU regulatory information

##### Additional information

The product is classified in accordance with Regulation (EC) No 1272/2008.

#### National regulatory information



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### **15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

### **SECTION 16: Other information**

#### **Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

#### **Relevant H and EUH statements (number and full text)**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

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.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

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.

#### **Further Information**

Weitere Informationen :

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*