

---

**SAFETY DATA SHEET**

---

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

- Product Name: CHEMGENE MedLab Disinfectant - All Variants  
≤10% dilution
- UFI: N/A

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

- Use of the substance/mixture: Disinfectant

**1.3 Details of the supplier of the safety data sheet**

- Name of Supplier: Byotrol
- Address of Supplier: Building 303 (Ashton),  
Thornton Science Park,  
Pool Lane, Ince, Chester,  
CH2 4NU
- Telephone: +44 (0) 1925 742 000
- Email: Info@byotrol.com
- Name of Supplier: (Ireland) Smart Antimicrobial Technologies Limited
- Address of Supplier: (Ireland) Trident House, Dublin Road, Naas, Kildare, Ireland

**1.4 Emergency telephone number**

- UK Emergency Telephone: In case of a medical emergency following exposure to a chemical, the public should call NHS Direct on 111
- Ireland Emergency Telephone: Irish National Poisons Information Centre Tel: +353 (0) 18 09 21 66. The opening times of The Irish Poisons Information Centre are 8am to 10pm.

---

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

- CLP: Aquatic Chronic 3

**2.2 Label elements**

- Signal Word: N/A

**2.2.1 Hazard statements**

H412 - Harmful to aquatic life with long lasting effects.

**2.2.2 Precautionary statements**

P102 - Keep out of reach of children.  
P273 - Avoid release to the environment.  
P501 Dispose of contents/container in accordance with national regulations

**2.3 Other hazards**

- None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical Name	CAS Number	EC Number	Concentration	Categories	H Statements
Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))	68424-85-1	939-350-2	0.1-1%	Acute Tox. 4 Eye Dam. 1 Skin Corr. 1B Aquatic Acute 1 Aquatic Chronic 1	H302 H314 H318 H400 H410
Didecyltrimethylammonium chloride	7173-51-5	230-525-2	0.1-1%	Acute Tox. 4 Skin Corr. 1B Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 2	H302 H314 H318 H400 H411
N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9	219-145-8	0.1-1%	Acute Tox. 3 Eye Dam. 1 Skin Corr. 1B STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1	H301 H314 H318 H373 H400 H410

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### 4.1.1 Inhalation

Not expected to present a significant inhalation hazard under the anticipated conditions of normal use.

#### 4.1.2 Ingestion

Rinse mouth.  
Give plenty of water to drink  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person  
Get medical advice/attention if you feel unwell.

#### 4.1.3 Contact with skin

Skin irritation should not occur when used as recommended. Wash with plenty of water.

#### 4.1.4 Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water  
If eye irritation persists: Get medical advice/attention.

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

#### 4.2.1 Inhalation

Not hazardous

#### 4.2.2 Ingestion

May cause gastro-intestinal disturbances

#### 4.2.3 Contact with skin

Product considered to be low hazard under normal conditions of use  
May cause allergic reaction in susceptible people

#### 4.2.4 Contact with eyes

Prolonged exposure may cause abrasive irritation of the eyes

---

## SECTION 4: First aid measures (....)

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

- Treat symptomatically
- When in doubt or symptoms persist, seek medical attention

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

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

- No hazard expected under normal conditions of use

### 5.3 Advice for firefighters

- Fight fire with normal precautions from a reasonable distance.

---

## SECTION 6: Accidental release measures

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

- No special precautions are required for this product

### 6.2 Environmental precautions

- Do not discharge into drains or the environment, dispose to an authorised waste collection point

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

- Contain spillage with sand, earth or other suitable non-combustible material. Dispose of spillage to a hazardous or special waste collection point.
- Spillage causes slippery surface
- Wash thoroughly after dealing with spillage

### 6.4 Reference to other sections

- For personal protection, see Section 8. For waste disposal, see Section 13.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Do not eat, drink or smoke when using this product.
- Avoid contact with skin and eyes
- Dispose of contents/container to an authorised waste collection point

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

- Keep out of reach of children
- Store at ambient temperature
- Store in a closed container.
- Protect from frost
- Protect from heat
- Incompatibility with other materials: Oxidising substances, Anionics, Peroxides, Acids

### 7.3 Specific end use(s)

- See Section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

8.1.1. Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))

DNEL (Consumer; dermal, long term systemic effects): 3.4 mg/kg bw/day

DNEL (Consumer; inhalational, long term systemic effects): 1.64 mg/m<sup>3</sup>

DNEL (Consumer; oral, long term systemic effects): 3.4 mg/kg bw/day

DNEL (Industry; dermal, long term systemic effects): 5.7 mg/kg bw/day

DNEL (Industry; inhalational, long term systemic effects): 3.96 mg/m<sup>3</sup>

8.1.2 N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

DNEL (Industry; dermal, long term systemic effects): 0.91 mg/kg

DNEL (Industry; inhalational, long term systemic effects): 2.35 mg/m<sup>3</sup>

DNEL (Consumer; inhalational, long term systemic effects): 0.7 mg/m<sup>3</sup>

DNEL (Consumer; dermal, long term systemic effects): 0.54 mg/kg bw/day

DNEL (Consumer; oral, long term systemic effects): 0.2 mg/kg

8.1.3 Didecyltrimethylammonium chloride

DNEL (Industry; dermal, long term systemic effects): 1.55 mg/kg

DNEL (Industry; inhalational, long term systemic effects): 5.39 mg/m<sup>3</sup>

### 8.2 Exposure controls

Appropriate Engineering Controls:

- Wash hands at the end of each work shift and before eating, smoking and using the toilet.
- Avoid contact with skin and eyes
- Wash contaminated clothing before reuse.
- No respiratory protection is required

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state: Liquid
- Colour: Colourless to pale blue
- Odour: Characteristic odour
- Melting point/Range: Not available
- Boiling Point/Range: >93 °C at 20 mm /Hg
- Flammability: Not flammable
- pH: 9.50-11.0
- Solubility in water: Completely soluble in water
- Density: 1.01-1.05 g/cm<sup>3</sup> at 20 °C
- Explosive Properties: Non-explosive
- Flashpoint: >93°C
- Autoignition Temperature: Not applicable\*
- Decomposition temperature: Not applicable\*
- Kinematic viscosity: Not applicable\*
- Partition coefficient : n-Octanol/water - not known
- Vapour pressure - not known
- Relative vapour density: Not applicable\*
- Particle characteristics: Not applicable\*

\* Not relevant due to the nature of the product

### 9.2 Other information

---

## SECTION 9: Physical and chemical properties (....)

---

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

- No hazardous reactions known if used for its intended purpose

#### 10.2 Chemical stability

- Considered stable under normal conditions

#### 10.3 Possibility of hazardous reactions

- Stable under normal ambient conditions and when used as recommended

#### 10.4 Conditions to avoid

- Keep away from heat

#### 10.5 Incompatible materials

- Incompatibility with other materials: Oxidising Substances, Anionics, Hypochlorite, Aldehydes

#### 10.6 Hazardous decomposition products

- No decomposition if stored normally
- 

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### 11.1.1 Acute toxicity

Estimated LD<sub>50</sub> (oral) (ATE) : 28604.12 mg/kg  
Estimated LD<sub>50</sub> (dermal) (ATE) : >4000 mg/kg  
Estimated LD<sub>50</sub> (inhalational) (ATE) : >20 mg/l/4hr (gas/vapour)

##### 11.1.2 Skin corrosion/irritation

Not hazardous

##### 11.1.3 Serious eye damage/irritation

May cause redness and irritation

##### 11.1.4 Respiratory or skin sensitisation

No experimental data available

##### 11.1.5 Germ cell mutagenicity

No evidence of mutagenic effects

##### 11.1.6 Carcinogenicity

No experimental data available

##### 11.1.7 Reproductive toxicity

No evidence of reproductive effects

##### 11.1.8 STOT (specific target organ toxicity) - single exposure

No experimental data available

**SECTION 11: Toxicological information (....)****11.1.9 STOT (specific target organ toxicity) - repeated exposure**

No experimental data available

**11.1.10 Aspiration hazard**

No aspiration toxicity classification

**11.2 Information on other hazards**

- Not applicable
- 

**SECTION 12: Ecological information****12.1 Toxicity**

- Contains ingredients that are dangerous for the environment (see section 3)

**12.2 Persistence and degradability**

- No experimental data available
- Expected to be readily biodegradable

**12.3 Bioaccumulative potential**

- Low bioaccumulation potential

**12.4 Mobility in soil**

- Completely soluble in water
- miscible with water

**12.5 Results of PBT and vPvB assessment**

- This product does not contain any substances classified as PBT or vPvB

**12.6 Endocrine disrupting properties**

- Product does not contain any substances known to be endocrine disruptors

**12.7 Other adverse effects**

- Toxic to sewage works organisms
- 

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Generation of waste product should be minimised. This product should be disposed of in accordance with local and national regulations. Waste diluted product (10% concentrate) should not be allowed to enter drains, water courses or soil without further dilution. It can be disposed of by washing to sewers with at least 10x volumes of water. The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

---

**SECTION 14: Transport information****14.1 UN number or ID number**

- UN No.: Not applicable

**14.2 UN proper shipping name**

- Proper Shipping Name: Not applicable

**14.3 Transport hazard class(es)**

---

## SECTION 14: Transport information (....)

- Hazard Class: N/A

### 14.4 Packing group

- Packing Group: N/A

### 14.5 Environmental hazards

N/A

### 14.6 Special precautions for user

- No special precautions are required for this product

### 14.7 Maritime transport in bulk according to IMO instruments

- Not applicable

---

## SECTION 15: Regulatory information

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

- This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878
- Refer to current CLP Regulations
- Refer to current ADR Regulations
- Refer to current BPR regulations
- Water Hazard Class (Company): 1

### 15.2 Chemical safety assessment

- This product is either exempt from REACH or does not meet the minimum volume threshold for a chemical safety assessment (CSA)

---

## SECTION 16: Other information

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.