



CHEMGENE MEDLAB MULTI-SURFACE DISINFECTANT

Rebreather Cleaning Instructions
& Manufacturer's Safety Data Sheet

18.03.2026

CHEMGENE MEDLAB DISINFECTANT

Rebreather Cleaning Instructions & Safety Data Sheet – V.03.2026

Use disinfectants safely. Always read the label and product information before use.

Chemgene MEDLAB Disinfectant has been chosen for its ability to destroy a wide variety of bacteria, viruses and fungi including Norovirus, Legionella, Tuberculosis and HIV.

Chemgene MEDLAB is supplied in a handy, 750ml litre spray bottle. This is already diluted to 10% Chemgene or 10:1 RTU (ready-to-use). That is, 10:1 is the recommended dilution for Laboratory use. **When cleaning a rebreather we recommend using the dilution rates in the table below:**

To achieve a dilution of 20:1 (as below) pour half of the contents of the 750ml spray bottle into another container (store safely for future use) and top up the spray bottle with cold, clean, potable water. Label the bottle 20:1.

To achieve a dilution of 100:1 (as below) pour 675ml of the contents of the 750ml spray bottle into another container (store safely for future use) and top up the spray bottle with cold, clean, potable water. Label the bottle 100:1.

Situation	Component	Dilution Ratio Water:Chemgene	Suggested Cleaning Method
Switching User	All	20:1	Soak for 10 mins & rinse through
Cleaning vomit, blood or excessive mucus	All	20:1	Soak for 10 mins & rinse through
End of days diving	Mouthpiece (including hoses)	100:1	Soak for 10 mins & rinse through
After 6 hours of use	All	100:1	Soak for 10 mins & rinse through
Prior to long term storage	All	100:1	Soak for 10 mins & rinse through
General surface cleaning	All	100:1	Wipe with soaked cloth

IMPORTANT: After disinfecting, always rinse with plenty of cold, potable water until all the disinfectant has been removed and allow to dry naturally.



Created: 3 Apr 2024 Revised: 10 Apr 2024

SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: Chemgene Medlab Multi-surface Disinfectant Cleaner - Unfragranced
- UFI: N/A
- Product Part Number: B3015

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

- Use of the substance/mixture: Disinfectant (PT 2)

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.
- Malta Emergency Telephone: +356 (0) 25 45 40 30

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.

P101 - If medical advice is needed, have product container or label at hand.

P273 - Avoid release to the environment.



SECTION 2: Hazards identification (....)

P501 Dispose of contents/container in accordance with national regulations.

2.3 Other hazards

- Product does not contain any substances known to be endocrine disruptors
- This product does not contain any substances classified as PBT or vPvB

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical Name	CAS-No. EC-No. Index-No. REACH Reg No.	Concentration	Categories	H Statements	M factor	Specific Concentration Limits
Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))	68424-85-1 270-325-2 - 01-2119970550-39	<1%	Acute Tox. 4 Skin Corr. 1 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1	H302 H314 H318 H400 H410	Acute = 10 Chronic = 1	N/A
Didecyldimethylammonium chloride	7173-51-5 230-525-2 612-131-00-6 01-2119945987-15	<1%	Acute Tox. 4 Skin Corr. 1B Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 2	H302 H314 H318 H400 H411	Acute = 10	N/A
N-(3-Aminopropyl)-N- dodecylpropane- 1,3-diamine	2372-82-9 219-145-8 - 01-219980592-29	<1%	Acute Tox. 3 Skin Corr. 1B Eye Dam. 1 STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1	H301 H314 H318 H373 H400 H410	Acute = 10 Chronic = 1	N/A

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.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

4.1.2 Ingestion

Rinse mouth.

Do NOT induce vomiting.

Give plenty of water to drink

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.



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

4.2 Most important symptoms and effects, both acute and delayed

4.2.1 Inhalation

In cases of severe exposure, coughing may develop

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

In cases of severe exposure, irritation may develop

4.2.4 Contact with eyes

Product considered to be low hazard under normal conditions of use

May cause irritation

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

- Avoid release to the environment.
- 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.
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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, Hypochlorite, Aldehydes

7.3 Specific end use(s)

- See Section 1.2
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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/m³

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/m³

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/m³

DNEL (Consumer; inhalational, long term systemic effects): 0.7 mg/m³

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 Didecyldimethylammonium chloride

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

DNEL (Industry; inhalational, long term systemic effects): 5.39 mg/m³

8.2 Exposure controls

- No special precautions are required for this product
 - Avoid contact with skin and eyes
 - Hand protection not required. Wash hands at the end of each shift and before eating, smoking or using the toilet.
 - No respiratory protection is required
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state: Liquid
 - Colour: Colourless to pale yellow
 - Odour: Characteristic odour
 - Melting point/Range: Not available
 - Boiling Point/Range: >93 °C at 20 mm /Hg
 - Flammability: Not flammable
 - pH: 10.0-11.0
 - Solubility in water: Completely soluble in water
 - Density: 0.99-1.02 g/cm³ at 20 °C
 - Flashpoint: >93°C
 - Autoignition Temperature: Not applicable*
 - Decomposition temperature: Not applicable*
 - Explosive Properties: Non-explosive
 - Kinematic viscosity: Not applicable*
 - Particle characteristics: Not applicable*
 - Partition coefficient : n-Octanol/water - not known
 - Relative vapour density: Not applicable*
 - Vapour pressure - not known
- * Not relevant due to the nature of the product

9.2 Other information

- None
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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 hazardous decomposition products known



SECTION 11: Toxicological information

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

11.1.1 Acute toxicity

Estimated LD₅₀ (oral) (ATE) : 57077.63 mg/kg
Estimated LD₅₀ (dermal) (ATE) : >4000 mg/kg
Estimated LD₅₀ (inhalational) (ATE) : >20 mg/l/4hr (gas/vapour)

11.1.2 Skin corrosion/irritation

Not hazardous

11.1.3 Serious eye damage/irritation

Not hazardous
In cases of severe exposure, irritation may develop

11.1.4 Respiratory or skin sensitisation

May cause allergic reaction in susceptible people

11.1.5 Germ cell mutagenicity

No evidence of mutagenic effects

11.1.6 Carcinogenicity

No evidence of carcinogenic effects

11.1.7 Reproductive toxicity

No evidence of reproductive effects

11.1.8 STOT (specific target organ toxicity) - single exposure

No experimental data available

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

- No effects in humans
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SECTION 12: Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

- Expected to be readily biodegradable
 - No experimental data available
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SECTION 12: Ecological information (....)

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
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Dispose of contents/container to an authorised waste collection point
 - The product should not be allowed to enter drains, water courses or the soil.
 - Dispose of contents to a hazardous or special waste collection point
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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)

- Hazard Class: N/A

14.4 Packing group

- Packing Group: N/A

14.5 Environmental hazards

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

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
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SECTION 15: Regulatory information



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): Not hazardous

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)
 - This Safety Data Sheet does not constitute a workplace risk assessment
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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.



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