



CHEMGENE HLD₄L DISINFECTANT

Rebreather Cleaning Instructions
& Safety Data Sheet

20.07.2023

CHEMGENE HLD₄L DISINFECTANT

Rebreather Cleaning Instructions & Safety Data Sheet – V.07.2023

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

Chemgene HLD₄L Disinfectant has been chosen for its ability to destroy a wide variety of bacteria, viruses and fungi including Legionella, Tuberculosis and HIV.

Chemgene HLD₄L 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.

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SAFETY DATA SHEET

CHEMGENE HLD4L Laboratory Surface Disinfectant RTU

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Compilation date: 20/08/2020

Revision No: 2

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

1.1. Product identifier

Product name: XTM301 CHEMGENE HLD4L Laboratory Surface Disinfectant RTU

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

Use of substance / mixture: Specialised cleaner and disinfectant.

1.3. Details of the supplier of the safety data sheet

Company name: Medimark Scientific Limited

4 East Point

Seal

TN15 0EG

United Kingdom

Tel: +44 (0) 8452 223344

Email: info@medi-mark.co.uk

1.4. Emergency telephone number

Emergency tel: British Poison Information

National Response Centre: NHS Direct

Telephone Number: +44 111

Poisons Information Centre of Ireland

+353 (0) 504 43169 (9am - 5pm)

Beaumont Hospital, PO Box 1297, Beaumont Road, Dublin 9, Ireland

Emergency Phone No: Members of the public: +353 (01) 809 2166 (8.00am to 10:00pm,

7 days per week) Healthcare professionals: +353 (01) 809 2566 (24 hour service)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Aquatic chronic 3: Harmful to aquatic life with long lasting effects

2.2. Label elements

Label elements:

Hazard Pictogram: None

Signal word: None

Hazard Statements: H412: Harmful to aquatic life with long lasting effects

Precautionary statements: P102: Keep out of reach of children.

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

[cont...]

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2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-14 (EVEN-NUMBERED)-ALKYLDIMETHYL, CHLORIDES

EINECS	CAS	PBT / WEL	CLP Classification	Percent
270-325-2	68424-85-1	-	Acute Tox. 4: H302; H312, Skin Corr. 1A: H314; Aquatic Acute 1: H400	0.1-1%

DIDECYLDIMETHYLAMMONIUM CHLORIDE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
230-525-2	7173-51-5	-	Acute Tox. 4: H302;H312, Skin Corr. 1: B H314;	0.1-1%

CHLORHEXIDINE DIGLUCONATE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
242-354-0	18472-51-0	-	Acute Tox. 4: H302; Eye Irritant 2: H319	0.01-1%

BIS (3-AMINOPROPYL) DODECYLAMINE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
219-145-8	2372-82-9	-	Acute Tox. 3: H301; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Corr. 1B: H314; STOT RE 2: H373	0.1-1%

Contains: Benzalkonium chloride

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Treat Symptomatically

Eye contact: Treat Symptomatically

Ingestion: Treat Symptomatically

Inhalation: Treat Symptomatically

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

None anticipated. Treat Symptomatically

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

Immediate / special treatment: Treat symptomatically.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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5.2. Special hazards arising from the substance or mixture

Exposure hazards: Not applicable.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: No special environmental concerns.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Wash the spillage site with large amounts of water.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: No special handling requirements.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Not applicable.

Respiratory protection: Respiratory protection not required.

Hand protection: Wear gloves if prolonged contact with product is likely.

Eye protection: Not required. Avoid contact with the eyes.

Skin protection: No special requirement.

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Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Various

Odour: Pleasant

Evaporation rate: No data available.

Oxidising: No data available.

Solubility in water: No data available.

Viscosity: No data available.

Boiling point/range°C: No data available.

Melting point/range°C: No data available.

Flammability limits %: lower: No data available.

upper: No data available.

Flash point°C: No data available.

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: No data available.

Vapour pressure: No data available.

Relative density: No data available.

pH: 7-8.5

VOC g/l: No data available.

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

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11.1. Information on toxicological effects

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No specific symptoms noted.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

Disposal operations: Disposed of uses solution in accordance with infection control guidelines, local policies and procedures.

13.1. Waste treatment methods

Disposal of packaging: Empty packaging may be recycled where facilities exist.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

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.

H412: Harmful to aquatic life with long lasting effects

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

ap diving
built for adventure



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