
SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: ANIGENE Chlorine Disinfectant Tablets - 5000ppm diluted solution
- UFI: N/A
- Product Part Number: RM205 - 5000ppm dilution

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

P273 - Avoid release to the environment.

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

2.3 Other hazards



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SECTION 2: Hazards identification (....)

- None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical Name	CAS-No. EC-No. Index-No. REACH Reg No.	Concentration	Categories	H Statements	Specific Concentration Limits	M factor
Troclosene sodium	2893-78-9 220-767-7 613-030-00-X 01-2119489371-33	0.1-1%	Ox. Sol. 2 Acute Tox. 4 Eye Irrit. 2 STOT SE 3 Aquatic Acute 1 Aquatic Chronic 1	H272 H302 H319 H335 H400 H410 EUH031	EUH031: C ≥ 10 % STOT SE 3 H335: C ≥ 10 %	M = 1

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 Inhalation

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

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

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

4.1.4 Contact with eyes

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

If eye irritation persists: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

4.2.1 Inhalation

May cause irritation

4.2.2 Ingestion

May cause gastro-intestinal disturbances

4.2.3 Contact with skin



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

May cause redness and irritation

4.2.4 Contact with eyes

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
 - Contact with acids liberates toxic gas (chlorine – toxic if inhaled).
 - Dilution of the product with copious water will reduce its hazardous properties.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

- No hazard expected under normal conditions of use
- Toxic gases and fumes may be released in a fire

5.3 Advice for firefighters

- Fight fire with normal precautions from a reasonable distance.
 - Wear chemical protection suit and breathing apparatus
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Do not mix with acid
- Wash thoroughly after dealing with spillage

6.2 Environmental precautions

- Avoid release to the environment.

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.
- 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.
- Dispose of contents/container to an authorised waste collection point



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SECTION 7: Handling and storage (....)

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: Acids, Alkalis, Amines, Peroxides
- Keep away from acids and alkalis

7.3 Specific end use(s)

- See Section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Substances

Chemical Name	WEL (short term)	WEL (inhalable dust) (long term)	WEL (respirable dust) (long term)
Chlorine (CAS 7782-50-5)	1.5 mg/m ³ (UK) 1.5 mg/m ³ (EU) 1.5 mg/m ³ (IE)	10 mg/m ³ (UK)	4 mg/m ³ (UK)

Substances

Chemical Name	DNEL (Consumer; dermal, long term systemic effects)	DNEL (Industry; dermal, long term systemic effects)	DNEL (Consumer; inhalational, long term systemic effects)	DNEL (Industry; inhalational, long term systemic effects)	DNEL (Consumer; oral, long term systemic effects)
Troclosene sodium	1.15 mg/kg bw/day	2.3 mg/kg bw/day	1.99 mg/m ³	8.11 mg/m ³	1.15 mg/kg bw/day

8.2 Exposure controls



Gloves



Goggles

- Wear safety glasses with side-shields conforming to EN166
- Avoid contact with skin
- Chemical-resistant protective gloves (EN 374) (Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier).
- Wash hands at the end of each work shift and before eating, smoking and using the toilet.
- Wash contaminated clothing before reuse.
- Use in well-ventilated areas.
- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state: Liquid
- Colour: Colourless to pale yellow
- Odour: Chlorine
- Melting point/Range: Not applicable*
- Boiling Point/Range: Not applicable*
- Flammability: Not flammable
- pH: 5.0-7.0
- Solubility in water: Completely soluble in water
- Density: 0.9-1.1 g/cm³ at 20 °C
- Flashpoint: >93°C
- Autoignition Temperature:
- Decomposition temperature: Not applicable*
- Explosive Properties: Not applicable*
- Kinematic viscosity: Not applicable*
- Particle characteristics: Not applicable*
- Partition coefficient : n-Octanol/water - not known
- Relative vapour density: Not applicable*
- Vapour pressure - not known

9.2 Other information

- No information available
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SECTION 10: Stability and reactivity

10.1 Reactivity

- No hazardous reactions known if used for its intended purpose
- Warning! Do not use together with other products. May release dangerous gases (chlorine).

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- Contact with acids liberates toxic gas
- The following materials may react with the product: Acids
Alkalis
Organic nitro compounds
Amines
Oxidising agents
Reducing agents
Moisture
Peroxides
Metals

10.4 Conditions to avoid



SECTION 10: Stability and reactivity (....)

- Keep away from heat

10.5 Incompatible materials

- Incompatibility with other materials: Acids, Alkalis, Amines, Peroxides

10.6 Hazardous decomposition products

- Chlorine, Nitrogen trichloride, Cyanogen chloride, Oxides of carbon, Phosgene.
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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) : >2000 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

- Based on available data, the classification criteria are not met for this product.
- NaDCC: Category 1 corrosive to skin (rabbit test)

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 evidence of carcinogenic effects

11.1.7 Reproductive toxicity

No evidence of reproductive effects

11.1.8 STOT (specific target organ toxicity) - single exposure

May cause respiratory irritation.

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 information available



SECTION 12: Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

The materials used in this preparation will not persist in the environment.

The free available chlorine from Sodium dichloroisocyanurate is rapidly consumed by reaction with organic and inorganic materials to produce chloride ion. The stable degradation products are chloride ion and cyanuric acid.

Sodium Dichloroisocyanurate is subject to hydrolysis. Cyanuric acid produced by hydrolysis is biodegradable.

12.3 Bioaccumulative potential

- Low bioaccumulation potential

Trichloroisocyanuric acid hydrolyses in water liberating chlorine and cyanuric acid. These products are not bioaccumulative.

12.4 Mobility in soil

- Completely soluble in water
- miscible with water

Rapidly degrades in soil. The breakdown product, cyanuric acid, is weakly absorbed and highly mobile in soils and sediments.

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 in accordance with national regulations
- Avoid release to the environment.

Customers should conduct their own risk assessments. Small volumes can be disposed of to the sanitary sewer in concentrations up to 5000ppm available chlorine. This should be done alongside flushing of copious amounts of water during and after 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
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**SECTION 14: Transport information (....)****14.3 Transport hazard class(es)**

- Hazard Class: N/A

14.4 Packing group

- Packing Group: N/A

14.5 Environmental hazards

N/A

14.6 Special precautions for user

N/A

14.7 Maritime transport in bulk according to IMO instruments

N/A

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

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.