
SAFETY DATA SHEET

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

- Product Name: Byotrol 4 in 1 Multi-Purpose Cleaner & Disinfectant Spray
- UFI: GP6A-CVRP-1J0M-READ
- Product Part Number: B2048A

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.

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

- CLP: Eye Irrit. 2, Aquatic Chronic 3

2.2 Label elements**GHS07**

- Signal Word: Warning

2.2.1 Hazard statements



SECTION 2: Hazards identification (....)

H319 - Causes serious eye irritation.

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.

P264 - Wash contaminated skin thoroughly after handling.

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

P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with national regulations

2.3 Other hazards

Active ingredients:

Didecyldimethylammonium Chloride 5.6g/Kg. Alkyl (C12-16) Dimethylbenzyl Ammonium Chloride 1.4g/Kg.

Other ingredients:

< 5% aliphatic hydrocarbons, < 5% cationic surfactants, < 5% non-ionic surfactants, < 5% perfumes.

Contains Hydroxyisohexyl 3-cyclohexene carboxaldehyde, Hexyl cinnamal, 2-methylisothiazol-3(2H)-one, 1,2-benzisothiazol-3(2H)-one, Iodopropynyl butylcarbamate.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical Name	CAS Number	EC Number	Concentration	Categories	Specific Concentration Limits
N,N-dimethyldecylamine N-oxide	2605-79-0	220-020-5	<1%	Acute Tox. 4 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 2	
Didecyldimethylammonium chloride	7173-51-5	230-525-2	<1%	Acute Tox. 3 Eye Dam. 1 Skin Corr. 1B Aquatic Acute 1 Aquatic Chronic 2	
Alkyl (C12-16) Dimethylbenzyl Ammonium Chloride	68424-85-1	270-325-2	<1%	Acute Tox. 4 Eye Dam. 1 Skin Corr. 1B Aquatic Acute 1 Aquatic Chronic 1	
Hexyl cinnamal	101-86-0	202-983-3	<0.01%	Skin Sens. 1B Aquatic Acute 1 Aquatic Chronic 2	
Hydroxyisohexyl 3-cyclohexene carboxaldehyde	31906-04-4	250-863-4	<0.01%	Skin Sens. 1	
1,2-benzisothiazolin-3-one	2634-33-5	220-120-9	<0.001%	Acute Tox. 4 Eye Dam. 1 Skin Irrit. 2 Skin Sens. 1 Aquatic Acute 1	Skin Sens. 1 H317: C ≥ 0.05 %



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SECTION 3: Composition/information on ingredients (....)

2-methylisothiazol-3(2H)-one	2682-20-4	220-239-6	<0.001%	Acute Tox. 2 Acute Tox. 3 Eye Dam. 1 Skin Corr. 1B Skin Sens. 1A Aquatic Acute 1 Aquatic Chronic 1	Skin Sens. 1 H317: C ≥ 0.0015 %
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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

Get medical advice/attention if you feel unwell.

Never give anything by mouth to an unconscious person

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.

Wash contaminated clothing 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 coughing

4.2.2 Ingestion

May cause gastro-intestinal disturbances

4.2.3 Contact with skin

May cause redness and irritation

May cause allergic reaction in susceptible people

4.2.4 Contact with eyes

Causes eye irritation.

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

- Wear goggles giving complete eye protection
- Wear protective clothing as per section 8

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: Anionics, Oxidising Substances



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

7.3 Specific end use(s)

- See Section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- There are no recommended or established controls for this product

8.2 Exposure controls

- 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

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: 9.50-10.50
- Solubility in water: Completely soluble in water
- Density: 0.99-1.01 g/cm³ at 20 °C
- Flashpoint: >93°C

9.2 Other information

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



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

- Incompatibility with other materials: Oxidising substances, Anionics

10.6 Hazardous decomposition products

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) : 17857.14 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

May cause redness and irritation

11.1.3 Serious eye damage/irritation

Causes redness and irritation

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

SECTION 12: Ecological information

12.1 Toxicity

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



SECTION 12: Ecological information (....)

12.2 Persistence and degradability

- 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
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Dispose of contents/container to an authorised 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:

14.4 Packing group

- Packing Group:

14.5 Environmental hazards

14.6 Special precautions for user

14.7 Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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



SECTION 15: Regulatory information (....)

- 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): 2

15.2 Chemical safety assessment

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.