
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: FNE9-TT38-KR5T-NA8Q
- Product Part Number: B2048A/02

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: 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-No. EC-No. Index-No. REACH Reg No.	Concentration	Categories	H Statements	Specific Concentration Limits	M factor
N,N-dimethyldecylamine N-oxide	2605-79-0 220-020-5 - 01-1529413750-8	<1%	Acute Tox. 4 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 2	H302 H318 H400 H411		Acute = 1
Didecyldimethylammonium chloride	7173-51-5 230-525-2 616-131-00-6 01-2119945987-15	<1%	Acute Tox. 3 Skin Corr. 1B Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 2	H302 H314 H318 H400 H411		Acute = 10
Alkyl (C12-16) Dimethylbenzyl Ammonium Chloride	68424-85-1 270-325-2 - 01-2119970550-39	<1%	Acute Tox. 4 Skin Corr. 1B Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1	H302 H314 H318 H400 H410		Acute = 10 Chronic = 1
1,2-benzisothiazolin-3-one	2634-33-5 220-120-9 - 01-2120761540-60	<0.001%	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 2	H302 H315 H318 H317 H400 H411	Skin Sens. 1 H317: C ≥ 0.05 %	Acute = 1
2-methylisothiazol- 3(2H)-one	2682-20-4 220-239-6 - 01-2120764690-50	<0.001%	Acute Tox. 3 Acute Tox. 3 Acute Tox. 2 Skin Corr. 1B Skin Sens. 1A Aquatic Acute 1 Aquatic Chronic 1	H301 H311 H330 H314 H317 H400 H410	Skin Sens. 1 H317: C ≥ 0.0015 %	Acute = 10 Chronic = 1



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.

Get medical advice/attention if you feel unwell.

Give plenty of water to drink

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

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

May cause allergic reaction in susceptible people

May cause redness and irritation

4.2.4 Contact with eyes

Causes eye irritation.

Prolonged exposure may cause abrasive irritation of the eyes

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
 - When in doubt or symptoms persist, seek medical attention
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SECTION 5: Firefighting measures



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.
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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.
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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: Anionics, Hypochlorite, Oxidising Substances

7.3 Specific end use(s)

- See Section 1.2
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters



SECTION 8: Exposure controls/personal protection (....)

- 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
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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: 9.50-10.50
 - 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
 - Solubility in water: Completely soluble in water
 - Density: 0.99-1.01 g/cm³ at 20 °C
 - Relative vapour density: Not applicable*
 - Particle characteristics: Not applicable*
- * Not relevant due to the nature of the product

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

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

**SECTION 10: Stability and reactivity (....)****10.5 Incompatible materials**

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

10.6 Hazardous decomposition products

- No decomposition if stored normally
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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) : 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

Not hazardous
May cause redness and irritation

11.1.3 Serious eye damage/irritation

May cause irritation

11.1.4 Respiratory or skin sensitisation

May cause allergic reaction in susceptible people
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

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

- 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

- 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
 - The product should not be allowed to enter drains, water courses or the soil.
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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

N/A

14.6 Special precautions for user

N/A



SECTION 14: Transport information (....)

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
- Water Hazard Class (Company): 2

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.