
SAFETY DATA SHEET

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

- Product Name: ANIGENE Professional Surface Disinfectant Cleaner - Apple
- UFI: T2DX-A4S1-HK05-H9FA
- Product Part Number: B3012H

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

- Use of the substance/mixture: Disinfectant (PT 3)

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: Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2

2.2 Label elements**GHS05****GHS09**

- Signal Word: Danger

2.2.1 Hazard statements



SECTION 2: Hazards identification (....)

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H410 - Very toxic to aquatic life with long lasting effects.

2.2.2 Precautionary statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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

P310 - Immediately call a POISON CENTER or doctor/physician.

P264 - Wash contaminated skin thoroughly after handling.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P501 Dispose of contents/container in accordance with national regulations

2.3 Other hazards

- Contains: Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16)), N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine, Didecyldimethylammonium chloride, Hexyl cinnamal

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	<2%	Acute Tox. 4 Skin Corr. 1B 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	<2%	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	<2%	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	N/A
Hexyl Cinnamal	101-86-0 202-983-3 - -	0.01-0.1%	Skin Sens. 1B Aquatic Acute 1 Aquatic Chronic 2	H317 H400 H411	Acute = 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 anticipate conditions of normal use



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

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

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

Severely irritating to eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.

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

Causes redness and irritation
Possible burning sensation of affected areas
Prolonged skin or eye contact may cause chemical burns
May cause allergic reaction in susceptible people

4.2.4 Contact with eyes

Causes damage to the eyes
Causes eye irritation.

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

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- In case of fire use water, alcohol resistant foam, carbon dioxide or dry agent

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
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SECTION 5: Firefighting measures (....)

5.3 Advice for firefighters

- Fight fire with normal precautions from a reasonable distance.
 - Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
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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
- Wear eye/face protection
- Wear suitable gloves
- Wash contaminated clothing before reuse.
- 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, Peroxides, Acids
- Keep away from 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 (....)

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



Boots



Gloves



Goggles



Suit

Appropriate Engineering Controls:

- Wash hands at the end of each work shift and before eating, smoking and using the toilet.
- Avoid contact with skin and eyes
- Wear chemical splash goggles
- Chemical-resistant protective gloves (EN 374) (Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier).
- Chemical-resistant clothing and boots in case direct dermal exposure and/or splashes occur.
- Wash contaminated clothing before reuse.
- No respiratory protection is required

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|------------------------|----------------------|
| - Physical state: | Liquid |
| - Colour: | Green |
| - Odour: | Characteristic odour |
| - Melting point/Range: | Not available |
| - Boiling Point/Range: | 93 °C at 20 mm /Hg |
| - Flammability: | Not flammable |
| - pH: | 10.50-11.40 |



SECTION 9: Physical and chemical properties (....)

- Solubility in water: Completely soluble in water
 - Density: 1010-1.050 g/cm³ at 20 °C
 - Flashpoint: >93°C
 - Autoignition Temperature: Not applicable*
 - 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
- * 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 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) : 2780.404 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

**SECTION 11: Toxicological information (....)**

Causes irritation

11.1.3 Serious eye damage/irritation

Can cause damage to the eyes

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 experimental data available

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

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
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SECTION 12: Ecological information (....)

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
 - The product should not be allowed to enter drains, water courses or the soil.
 - Dispose of contents/container to an authorised waste collection point
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SECTION 14: Transport information



Dangerous Substance



ENVIRONMENTALLY HAZARDOUS

14.1 UN number or ID number

- UN No.: 3082

14.2 UN proper shipping name

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es)

- Hazard Class: 9

14.4 Packing group

- Packing Group: III

14.5 Environmental hazards

- Marine Pollutant
- ENVIRONMENTALLY HAZARDOUS

14.6 Special precautions for user

- Contains: Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16)), Didecyldimethylammonium chloride, N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

14.7 Maritime transport in bulk according to IMO instruments

- Not applicable
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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
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SECTION 15: Regulatory information (....)

- Refer to current CLP Regulations
- Refer to current ADR Regulations
- Refer to current BPR regulations
- Water Hazard Class (Company): 1

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.