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 – Citrus
- UFI: 91C5-60K8-7001-D1JE
- Product Part Number: B3012F

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

H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H410 - Very toxic to aquatic life with long lasting effects.
EUH208 - Contains Limonene. May produce an allergic reaction.

SECTION 2: Hazards identification (....)

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 contaiminated 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)), Didecyldimethylammonium chloride, N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine, Limonene, Linalool

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical Name	CAS-No. EC-No. Index-No. REACH Reg No.	Concentration	Categories	H Statements
Didecyldimethylammonium chloride	7173-51-5 230-525-2 612-131-00-6 01-2119945987-15	1-5%	Acute Tox. 4 Eye Dam. 1 Skin Corr. 1B Aquatic Acute 1 Aquatic Chronic 1	H302 H314 H318 H400 H410
Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))	68424-85-1 939-350-2 - 01-2119970550-39	1-5%	Acute Tox. 4 Skin Corr. 1B Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1	H302 H314 H318 H400 H410
N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9 219-145-8 - 01-2119980592-29	1-5%	Acute Tox. 3 Skin Corr. 1B Eye Dam. 1 STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1	H301 H314 H318 H373 H400 H410
Limonene	5989-27-5 227-813-5 - 01-2119529223-47	0.1-1%	Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	H226 H315 H317 H400 H410
Linalool	78-70-6 201-134-4 - 01-2119474016-42	0.01-0.1%	Skin Irrit. 2 Skin Sens. 1B Eye Irrit. 2	H315 H317 H319

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.

4.1.2 Ingestion

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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Give plenty of water to drink
Never give anything by mouth to an unconscious person
If you feel unwell, seek medical advice (show the label where possible)

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/doctor/

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

4.2.4 Contact with eyes

Causes eye irritation.
Causes damage to 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

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

SECTION 6: Accidental release measures (....)

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

6.2 Environmental precautions

- Collect spillage.
- 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
- 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, Hypochlorite, Aldehydes

7.3 Specific end use(s)

- See Section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

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

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: Yellow
- Odour: Characteristic odour
- Melting point/Range: Not available
- Boiling Point/Range: >93 °C at 20 mm /Hg
- Flammability: Not flammable
- pH: 10.5-11.4
- Solubility in water: Completely soluble in water
- Density: 0.99-1.01 g/cm³ at 20 °C
- Explosive Properties: Non-explosive
- 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
- Relative vapour density: Not applicable*
- Particle characteristics: Not applicable*

* Not relevant due to the nature of the product

9.2 Other information

- None

SECTION 10: Stability and reactivity

10.1 Reactivity

- No hazardous reactions known if used for its intended purpose

10.2 Chemical stability

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

- 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
- Avoid contact with oxidising substances

10.5 Incompatible materials

- Incompatibility with other materials: Oxidising substances, Anionics, Hypochlorite, Aldehydes

10.6 Hazardous decomposition products

- No hazardous decomposition products known

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Acute toxicity

Estimated LD_{50} (oral) (ATE) : 5410.67 mg/kg
Estimated LD_{50} (dermal) (ATE) : >4000 mg/kg
Estimated LD_{50} (inhalational) (ATE) : >20 mg/l/4hr (gas/vapour)

11.1.2 Skin corrosion/irritation

Causes irritation

11.1.3 Serious eye damage/irritation

Can cause damage to the eyes

11.1.4 Respiratory or skin sensitisation

Contains Limonene. May produce an allergic reaction.

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

Not applicable

11.2 Information on other hazards

SECTION 11: Toxicological information (....)

- No effects in humans

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

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

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

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

SECTION 14: Transport information (....)

- Marine Pollutant
- ENVIRONMENTALLY HAZARDOUS

14.6 Special precautions for user

- Contains: Quaternary ammonium compounds, benzyl-c12-14 (even numbered)-alkyldimethyl, chlorides

14.7 Maritime transport in bulk according to IMO instruments

- Not applicable

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

SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H226: Flammable liquid and vapour. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

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.

Additional precautionary statements:

Avoid release to the environment.

Collect spillage.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.