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## SAFETY DATA SHEET

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

#### 1.1 Product identifier

- Product Name: PROCESSUS Instrument Disinfectant
- UFI: XCAX-64Y3-DK0G-957P
- Product Part Number: B3012

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

- Use of the substance/mixture: Disinfectant (PT 2), 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.
- Malta Emergency Telephone: + 356 (0) 25 45 40 30

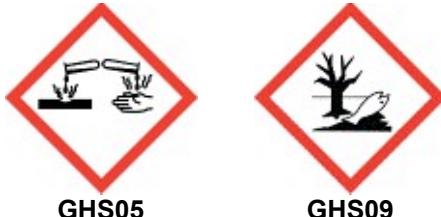
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### SECTION 2: Hazards identification

#### 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



- Signal Word: Danger

#### 2.2.1 Hazard statements

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## 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)), Didecyldimethylammonium chloride, N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

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## 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
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	Acute = 10	N/A
Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))	68424-85-1 270-325-2 - 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	Acute = 10 Chronic = 1	N/A
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	Acute = 10	N/A

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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.

#### 4.1.2 Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 Give plenty of water to drink

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

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.  
 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

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.  
 Risk of serious damage to 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

### 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

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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

- 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.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Avoid contact with skin and eyes
- Do not eat, drink or smoke when using this product.
- 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

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## 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/m<sup>3</sup>

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/m<sup>3</sup>

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

### 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/m<sup>3</sup>

DNEL (Consumer; inhalational, long term systemic effects): 0.7 mg/m<sup>3</sup>

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/m<sup>3</sup>

## 8.2 Exposure controls



## 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:	Colourless to pale yellow
- Odour:	Characteristic odour
- Melting point/Range:	Not available
- Boiling Point/Range:	>93 °C at 20 mm /Hg
- Flammability:	Not flammable
- Explosive Properties:	Not applicable*
- pH:	10.5-11.4
- Flashpoint:	>93 °C
- Autoignition Temperature:	Not applicable*
- Decomposition temperature:	Not applicable*
- Kinematic viscosity:	Not applicable*
- Solubility in water:	Completely soluble in water
- Partition coefficient : n-Octanol/water	- not known
- Vapour pressure -	not known
- Density:	1.010-1.050 g/cm <sup>3</sup> at 20 °C

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

- Relative vapour density: Not applicable\*
- Particle characteristics: Not applicable\*

\* 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
- 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

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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 LD<sub>50</sub> (oral) (ATE) : 5410.67 mg/kg  
Estimated LD<sub>50</sub> (dermal) (ATE) : >4000 mg/kg  
Estimated LD<sub>50</sub> (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

Can cause damage to the eyes and skin

#### 11.1.4 Respiratory or skin sensitisation

No experimental data available  
May cause allergic reaction in susceptible people

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

### 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

- 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

### 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 13: Disposal considerations (....)

- The product should not be allowed to enter drains, water courses or the soil.
- Dispose of contents/container in accordance with national regulations

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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
- 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

**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.**