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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 Enzymatic Instrument Cleaner
- UFI: NXWD-6SR9-X10Y-J7MH
- Product Part Number: RM203

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

- Use of the substance/mixture: Enzymatic cleaner for pre-cleaning

**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
- Email: Info@byotrol.com
- Telephone: +44 (0) 1925 742 000
- 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.

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

- CLP: Skin Sens. 1

**2.2 Label elements****GHS07**

- Signal Word: Warning

**2.2.1 Hazard statements**

H317 - May cause an allergic skin reaction.  
EUH208 - Contains 1,2-benzisothiazolin-3-one, alpha-amylase, triacylglycerol lipase, subtilisin. May produce an allergic reaction.

**2.2.2 Precautionary statements**



## SECTION 2: Hazards identification (....)

P262 - Do not get in eyes, on skin, or on clothing.  
 P264 - Wash hands and working surfaces thoroughly after handling.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352: IF ON SKIN: Wash with plenty of water.  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3 Other hazards

N/A

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

| Chemical Name              | CAS-No.<br>EC-No.<br>Index-No.<br>REACH<br>Reg No.         | Concentration | Categories  | H Statements   | M factor                 | Specific Concentration Limits          |
|----------------------------|--|---------------|---|--|--------------------------|--|
| Propane-1,2-diol           | 57-55-6<br>200-338-0<br>-<br>01-2119456809-23              | 10-20%        | Not classified<br>Workplace Exposure Limit  | N/A  |                          |  |
| propan-2-ol                | 67-63-0<br>200-661-7<br>603-117-00-0<br>01-2119457558-25   | 1-5%          | Flam. Liq. 2<br>Eye Irrit. 2<br>STOT SE 3   | H225<br>H319<br>H336                                 |                          |  |
| 1,2-benzisothiazolin-3-one | 2634-33-5<br>220-120-9<br>613-088-00-6<br>01-2120761540-60 | 0.1- <1%      | Acute Tox. 4<br>Skin Irrit. 2<br>Eye Dam. 1<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 2               | H302<br>H315<br>H318<br>H317<br>H400<br>H411         | Acute = 1<br>Chronic = 1 | Skin Sens.<br>1<br>H317:<br>C ≥ 0.05 % |
| alpha-amylase              | 9000-90-2<br>232-565-6<br>-<br>01-2119938627-26            | 0.1- <1%      | Skin Irrit. 2<br>Eye Irrit. 2<br>Resp. Sens. 1<br>STOT SE 3   | H315<br>H319<br>H334<br>H335                         |                          |  |
| subtilisin                 | 9014-01-1<br>232-752-2<br>647-012-00-8<br>01-219480434-38  | 0.1- <1%      | Acute Tox. 4<br>Skin Irrit. 2<br>Eye Dam. 1<br>Resp. Sens. 1<br>STOT SE 3<br>Aquatic Acute 1<br>Aquatic Chronic 1 | H302<br>H315<br>H318<br>H334<br>H335<br>H400<br>H411 | Acute = 1                |  |
| triacylglycerol lipase     | 9001-62-1<br>232-619-9<br>-<br>01-2119972939-13            | 0.1- <1%      | Resp. Sens. 1<br>Aquatic Chronic 3  | H334<br>H412   |                          |  |

## 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

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

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.

**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.

**4.2 Most important symptoms and effects, both acute and delayed**

- Product considered to be low hazard under normal conditions of use

**4.2.1 Inhalation**

In cases of severe exposure, irritation may develop

**4.2.2 Ingestion**

May cause gastro-intestinal disturbances

**4.2.3 Contact with skin**

In cases of severe exposure, redness and irritation may develop  
May cause allergic reaction in susceptible people

**4.2.4 Contact with eyes**

In cases of severe exposure, irritation may develop

**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**

- In case of fire use water, alcohol resistant foam, carbon dioxide or dry agent

**5.2 Special hazards arising from the substance or mixture**

- Not applicable

**5.3 Advice for firefighters**

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- 

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- Wear protective clothing as per section 8

**6.2 Environmental precautions**

- No special precautions are required for this product

**6.3 Methods and material for containment and cleaning up**

- Absorb spillage in earth or sand
- Wash thoroughly after dealing with spillage

**6.4 Reference to other sections**



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

- For personal protection, see Section 8. For waste disposal, see Section 13.

## 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.

### 7.2 Conditions for safe storage, including any incompatibilities

- Keep out of reach of children
- Protect from frost
- Protect from heat
- Store in a closed container.
- Store in a well-ventilated place.

### 7.3 Specific end use(s)

- See Section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Substances

| Chemical Name    | WEL<br>(respirable<br>dust) (long<br>term) | WEL<br>(respirable<br>dust) (short<br>term) |
|------------------|--|---|
| PROPANE-1,2-DIOL | 474 mg/m <sup>3</sup> (UK)                 | N/A   |
| PROPAN-2-OL      | 999 mg/m <sup>3</sup> (UK)                 | 1250 mg/m <sup>3</sup> (UK)                 |

#### Substances

| Chemical Name              | DNEL<br>(Consumer;<br>inhalational,<br>long term<br>local effects) | DNEL<br>(Consumer;<br>inhalational,<br>long term<br>systemic<br>effects) | DNEL<br>(Consumer;<br>oral, short<br>term systemic<br>effects) | DNEL<br>(Consumer;<br>oral, long<br>term systemic<br>effects) | DNEL<br>(Consumer;<br>dermal, long<br>term systemic<br>effects) |
|----------------------------|--|--|--|---|---|
| 1,2-BENZISOTHIAZOLIN-3-ONE |  | 1.2 mg/m <sup>3</sup>  |  |   | 0.345 mg/kg bw/day  |
| subtilisin                 | 15 ng/m <sup>3</sup>   |  | 3.6 mg/kg bw/day   | 1.8 mg/kg bw/day  |   |
| triacylglycerol lipase     | 15 ng/m <sup>3</sup>   |  |  |   |   |
| alpha-amylase              | 15 ng/m <sup>3</sup>   |  |  |   |   |
| propane-1,2-diol           | 10 mg/m <sup>3</sup>   | 50 mg/m <sup>3</sup>   |  |   |   |
| propan-2-ol                |  | 89 mg/m <sup>3</sup>   |  | 26 mg/kg bw/day   | 319 mg/kg bw/day  |

#### Substances

| Chemical Name              | DNEL<br>(Industry;<br>inhalational,<br>long term<br>local effects) | DNEL<br>(Industry;<br>inhalational,<br>long term<br>systemic<br>effects) | DNEL<br>(Industry;<br>dermal, long<br>term systemic<br>effects) |
|----------------------------|--|--|---|
| 1,2-benzisothiazolin-3-one |  | 6.81 mg/m <sup>3</sup>   | 0.966 mg/kg bw/day  |
| subtilisin                 | 60 ng/m <sup>3</sup>   |  |   |
| triacylglycerol lipase     | 60 ng/m <sup>3</sup>   |  |   |
| alpha-amylase              | 60 ng/m <sup>3</sup>   |  |   |
| propane-1,2-diol           | 10 mg/m <sup>3</sup>   | 180 mg/m <sup>3</sup>  |   |
| propan-2-ol                |  | 500 mg/m <sup>3</sup>  | 888 mg/kg bw/day  |

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

### 8.2 Exposure controls



#### Gloves

- Chemical-resistant protective gloves (EN 374) (Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier).
- No respiratory protection is required unless subject to contact with substance mist
- Avoid contact with eyes

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## 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:                                     | 7-9                         |
| - Solubility in water:                    | Completely soluble in water |
| - Density:                                | Not available               |
| - 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

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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

- Stable under normal ambient conditions and when used as recommended

### 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



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

- Incompatibility with other materials: Strong Oxidising Agents  
Strong Acids

### 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

Not Classified

#### 11.1.2 Skin corrosion/irritation

Not hazardous

In cases of severe exposure, redness and irritation may develop

#### 11.1.3 Serious eye damage/irritation

In cases of severe exposure, redness and irritation may develop

#### 11.1.4 Respiratory or skin sensitisation

Contains 1,2-benzisothiazolin-3-one, alpha-amylase, lipase, subtilisin. May produce an allergic reaction.

Potential dermal sensitization calculated

#### 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
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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Substances



## SECTION 12: Ecological information (....)

| Chemical Name              | EC <sub>50</sub> (Daphnia magna) | LC <sub>50</sub> (fish) | IC <sub>50</sub> (algae) |
|----------------------------|----------------------------------|-------------------------|--------------------------|
| subtilisin                 | 0.306 mg/l (48 hr)               | 8.2 mg/l (96 hr)        | 0.513 mg/l (72 hr)       |
| triacylglycerol lipase     | >262.3 mg/l (48 hr)              | >262.3 mg/l (96 hr)     | 94.2 mg/l (72 hr)        |
| alpha-amylase              | 212 mg/l (48 hr)                 |                         |                          |
| propane-1,2-diol           |                                  | 51400 mg/l (96 hr)      | 19300 mg/l (72 hr)       |
| 1,2-benzisothiazolin-3-one | 2.9 mg/l (48 hr)                 | 2.15 mg/l (96 hr)       |                          |
| propan-2-ol                |                                  | 9640 mg/l (96 hr)       |                          |

### Substances

| Chemical Name              | PNEC (Fresh water) | PNEC (intermittent) | PNEC (Marine water) | PNEC (Soil)              |
|----------------------------|--------------------|---------------------|---------------------|--------------------------|
| propane-1,2-diol           | 260 mg/l           | 183 mg/l            | 26 mg/l             | 50 mg/kg dry weight      |
| propan-2-ol                | 140.9 mg/l         | 140.9 mg/l          | 140.9 mg/l          | 28 mg/kg dry weight      |
| 1,2-benzisothiazolin-3-one | 4.03 µg/L          | 1.1 µg/L            | 0.403 µg/L          | 3 mg/kg dry weight       |
| alpha-amylase              | 5.2 µg/L           | 52 µg/L             | 0.52 µg/L           | 0.00068 mg/kg dry weight |
| subtilisin                 | 1.7 µg/L           | 0.9 µg/L            | 0.17 µg/L           | 568 µg/kg soil dw        |
| triacylglycerol lipase     | 15.5 µg/L          | 155 µg/L            | 1.55 µg/L           | 1.85 µg/kg soil dw       |

### Substances

| Chemical Name              | PNEC (Sediment; fresh water) | PNEC (Sediment; marine water) | PNEC (STP) |
|----------------------------|------------------------------|-------------------------------|------------|
| propane-1,2-diol           | 572 mg/kg dry weight         | 57.2 mg/kg dry weight         | 20000 mg/l |
| propan-2-ol                | 552 mg/kg dry weight         | 552 mg/kg dry weight          | 2251 mg/l  |
| 1,2-benzisothiazolin-3-one | 49.9 mg/kg dry weight        | 4.99 mg/kg dry weight         | 1.03 mg/l  |
| alpha-amylase              |                              |                               | 65000 µg/L |
| subtilisin                 |                              |                               | 65000 µg/L |
| triacylglycerol lipase     |                              |                               | 65000 µg/L |

- No experimental data available

### 12.2 Persistence and degradability

- 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

- No information available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Small amounts of unwanted product may be flushed with water to sewer.
- Dispose of contents/container in accordance with national regulations



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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

- On available data, substance is not harmful to the environment

### 14.6 Special precautions for user

- No special precautions are required for this product

### 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
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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.**