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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.
- 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 Sens. 1

#### 2.2 Label elements



- Signal Word: Warning

#### 2.2.1 Hazard statements

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

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

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

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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
Propane-1,2-diol	57-55-6 200-338-0 - 01-2119456809-23	10-20%	Not classified Workplace Exposure Limit	N/A		
propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	1-5%	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336		
1,2-benzisothiazolin-3-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	0.1- <1%	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 2	H302 H315 H318 H317 H400 H411	Acute = 1 Chronic = 1	Skin Sens. 1 H317: C ≥ 0.05 %
alpha-amylase	9000-90-2 232-565-6 - 01-2119938627-26	0.1- <1%	Skin Irrit. 2 Eye Irrit. 2 Resp. Sens. 1 STOT SE 3	H315 H319 H334 H335		
subtilisin	9014-01-1 232-752-2 647-012-00-8 01-219480434-38	0.1- <1%	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Resp. Sens. 1 STOT SE 3 Aquatic Acute 1 Aquatic Chronic 1	H302 H315 H318 H334 H335 H400 H411	Acute = 1	
triacylglycerol lipase	9001-62-1 232-619-9 - 01-2119972939-13	0.1- <1%	Resp. Sens. 1 Aquatic Chronic 3	H334 H412		

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

## SECTION 4: 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

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

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## 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

- 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.

### 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

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Substances

Chemical Name	WEL (respirable dust) (long term)	WEL (respirable dust) (short 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 (Consumer; inhalational, long term local effects)	DNEL (Consumer; inhalational, long term systemic effects)	DNEL (Consumer; oral, short term systemic effects)	DNEL (Consumer; oral, long term systemic effects)	DNEL (Consumer; dermal, long term systemic 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	

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

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 (Industry; inhalational, long term local effects)	DNEL (Industry; inhalational, long term systemic effects)	DNEL (Industry; dermal, long term systemic 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

### 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

## 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\*

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

- 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

- 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

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

### 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

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

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

triacylglycerol lipase			65000 µg/L
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- 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

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## 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

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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

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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.