Getinge Clean Enzymatic Plus
Safety Data Sheet

Section 1. Identification of the material and the supplier

Product:	**Geting Clean Enzymatic Plus**
Product Code:	XV1755, 6002473001, 6002473204, 6002473301
Product Use:	A neutral pH, quadruple enzyme detergent for use to clean medical devices in a washer-disinfector, ultrasonic bath or by manual cleaning.
New Zealand Distributor:	**Getinge Australia (New Zealand Branch)**
Address:	600 Great South Road Building B, Level 2, Ellerslie, Auckland, 1051 New Zealand
Telephone:	+64 9 272 9039
Emergency Telephone:	**+64 9 272 9039 or 0800 764 766 (National Poison Centre)**
Date of SDS Preparation:	3 October 2022

Section 2. Hazards Identification

Not classified as hazardous according to Regulation (EC) No. 1272/2008 which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2017.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Subtilisins	0 - 1 %	9014-01-1
Nonionic Surfactant	0 – 1 %	120313-48-6
1,2-benzisoyhiazol-3(2H)-one	<0.5%	2634-33-5
Lipase	<0.1%	9001-62-1
Amylase	<0.1%	9000-90-2
Cellulase	<0.1%	9012-54-8

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Seek immediate medical attention if needed.
If on Skin	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	Rinse mouth. Do NOT induce vomiting. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position

and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: Contains enzyme (subtilisins) and 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable or combustible.
Hazards from combustion products	No specific hazards arising from the mixture.
Suitable Extinguishing media	No special requirements. Use extinguishing media appropriate for primary source of fire.
Precautions for firefighters and special protective clothing	No special measures arising from the mixture.
HAZCHEM CODE	**None allocated**

Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Spillage may make floors slippery. Keep the area clear.

Prevent spills from entering water courses.

Small quantities, mop up or use an inert absorbent.
Large quantities, contain and absorb or pump into suitable containers for disposal.
Dispose of according to Local Regulations detailed in Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Do not mix with other products.
- Observe good industrial hygiene.
- Shelf life: 24 months in original, sealed containers.

Precautions for Storage:

- Store in a cool, dry place protected from frost and away from acids and strong oxidising agents.
- Store upright in original containers.
- Recommended storage temperature 5–25 °C.

Product Uses:

- For use in a washer disinfector: Dose 0.5-8 ml/l. <1.5 ml/l should only be used in soft or treated water. Dosing temperature 35 °C. Wash temperature 50-65 °C.
- For manual/ ultrasonic use: Dose 2-20 ml/l. Temperature 25-45 °C. Contact time 2-10 minutes.
- Discard solution at least every 4 hours or more frequently when visibly contaminated. Check materials for compatibility before use. Ensure complete rinsing.
- Do not mix with other products.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

	TWA	**STEL**

Substance	ppm	mg/m³	ppm	mg/m³
Subtilisins (Proteolytic enzymes, as 100% pure crystalline enzyme) [1395-21-7]; [9014-01-1]		Ceiling 0.00006		

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering Controls

Ensure adequate ventilation is available. The measures below are suggested on the basis of general use methods and may not be appropriate to all potential uses of the product. The user is responsible for carrying out a full risk assessment of their specific processes and systems of work.

Personal Protection Equipment

Eyes	Wear eye protection appropriate to the process according to BS EN 166.
Hands and Skin	Wear PVC or latex gloves. Exact choice of glove depends on specific risk assessments. Wear protective clothing as necessary to prevent contact.
Respiratory	Avoid breathing spray mist, wear a protective mask to EN149 if necessary.

Section 9 Physical and Chemical Properties

Appearance	Blue liquid
Odour	Characteristic
Odour Threshold	Not available
pH @ 20^{0}C	8.6 as supplied (typical), 8.4 at 2 ml/l (typical)
Boiling Point	> 100 °C
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Relative Density @ 20^{0}C	1.038 (typical)
Bulk Density	Not available
Water Solubility:	Miscible with water
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	5 cSt (typical)
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Extremes of temperature.
Incompatible Materials	Incompatible with strong oxidising agents and acids.
Hazardous Decomposition Products	None known.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. Calculated acute toxicity (Oral) >60,000 mg/kg. Will cause irritation to gastro-intestinal tract.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable however prolonged or repeated contact may cause irritation/dryness.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

Not classified as dangerous for the environment.

Persistence and degradability	All organic ingredients are biodegradable when well diluted. Surfactants used meet biodegradability criteria, see section 15
Bioaccumulation	Not expected to bioaccumulate.
Mobility in Soil	This product has high water solubility.
Other adverse effects	No other adverse effects are anticipated.

Section 13. Disposal Considerations

Disposal Method:
Process effluent can normally be discharged to foul sewer (subject to consent limits).
Dispose of surplus product and packaging via a licenced chemical waste contractor.
Empty cleaned containers can be recycled where facilities exist or sent for landfill or incineration where permitted.

Precautions and methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ: NZS 5433:2020

Section 15 Regulatory Information

Not classified as hazardous according to Regulation (EC) No. 1272/2008 which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2017.

Section 16 Other Information

Glossary

EC_{50}	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority

HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC_{50}	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD_{50}	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

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Please contact the New Zealand distributor, if further information is required.

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