Getinge Clean
Manual Pro+

SECTION 1: Identification of the substance/mixture and company

1.1 Product identifier

Product code: XV1774, 6036000401, 6036000501
Name: Manual Pro+

1.2 Product uses

A neutral pH, quadruple enzyme detergent for use to clean medical devices via ultrasonic or manual methods.

1.3 Supplier

Details of the supplier of the Safety Data Sheet.

Supplier:
Quadralene Limited
Bateman Street
Derby
DE23 8JL
United Kingdom
Phone: +44 (0)1332 292500
Web: www.getinge.com
E-mail: info@getinge.com

Supplier New Zealand:
Getinge Australia (NZ Branch)
600 Great South Road
Building B, Level 2
Ellerslie, Auckland 1051
NEW ZEALAND
Phone: 0800 1 438 464

Supplier Australia:
Getinge Australia Pty Ltd
Suite 701, Level 7, 11 Help Street,
Chatswood, NSW 2067
Australia
Phone: 1800 438 464

1.4 Emergency telephone number

For emergency event of spillage, inhalation or ingestion of products, please contact the emergency hotline:

Europe: +44 1235 239670
Africa/South Africa: +27 21 300 2732
Middle East/Africa: +44 1235 239671
Asia/Pacific: +65 3165 2217
Australia: 1800 074 234
New Zealand: 0800 446 881
Japan: 0120 015 230
China: 400 120 6011

SECTION 2: Hazards identification (undiluted product)

2.1 Classification of the substance or mixture

According to 1272/2008

Health hazards:	Not classified.
Physical hazards:	Not classified.
Environmental hazards:	Not classified.

2.2 Label elements

According to 1272/2008

EUH208	Contains enzyme (subtilisins) and 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
P262	Do not get in eyes, on skin, or on clothing.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.

2.3 Other hazards

None identified.

SECTION 3: Composition/information on ingredients

Material	CAS number	Level	EC No (where available)	EU REACH reg. no. (where available)	Hazards (see section 16)
Subtilisins	9014-01-1	0–1 %	232-752-2	01-2119480434-38	Acute Tox. 4, H302 Aquatic Acute 1, H400 Eye Dam. 1, H318 Aquatic Chronic 2, H411 Resp Sens. 1, H334 STOT SE 3, H335 Skin Irrit. 2, H315
Nonionic surfactant	120313-48-6	0-1 %			Aquatic Acute 1, H400 Aquatic Chronic 3, H412 Skin Irrit. 2, H315
1,2-benzisothiazol-3(2H)-one	2634-33-5	<0.05 %	220-120-9	01-2120761540-60	Acute Tox. 2, H330 Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Eye Dam. 1 H318 Skin Irrit. 2 H315 Skin Sens. 1, H317
Lipase	9001-62-1	<0.1 %	232-619-9		Resp Sens. 1, H334
Amylase	9000-90-2	<0.1 %	232-565-6	01-2119938627-6	Resp Sens. 1, H334
Cellulase	9012-54-8	<0.1 %	232-734-4		Resp Sens. 1, H334

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact:	Immediately flush eyes with water, holding eyelids apart, for at least 10 minutes. Seek medical assistance if irritation persists.
Skin contact:	Remove contaminated clothing, wash skin with water and seek medical attention if irritation persists.
Inhalation:	If irritation occurs, remove to fresh air, keep warm and at rest. Seek medical attention immediately.
Ingestion:	Do not induce vomiting. If conscious, give water to drink. Seek medical assistance immediately.
First aider PPE:	As required to prevent contact. See section 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Eye hazard:	Will cause irritation.
Skin hazard:	Prolonged or repeated contact may cause irritation/dryness.
Respiratory hazard:	Not a hazard in normal use. Breathing spray mist may cause irritation/allergic reaction.
Other hazards:	-

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment or attention required additional to section 4.2.

SECTION 5: Fire fighting measures

Flammability hazard: Not combustible.

5.1 Extinguishing media

No special requirements. Use extinguishing media appropriate for primary source of fire.

5.2 Special hazards arising from the substance or mixture

No specific hazards arising from the mixture.

5.3 Advice for firefighters

No special measures arising from the mixture.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Take precautions to avoid contact. Use personal protective equipment as detailed in section 8.

Spillage may make floors slippery. Keep the area clear. Observe regulations.

6.2 Environmental precautions

Prevent spills from entering water courses.

6.3 Methods and material for containment and cleaning up

Small quantities, mop up or use an inert absorbent.

Large quantities, contain and absorb or pump into suitable containers for disposal.

6.4 Reference to other sections

Observe the advice given in sections 8 and 13.

SECTION 7: Handling and storage

Shelf life: 24 months in original, sealed containers.

7.1 Precautions for safe handling

Do not mix with other products. Observe good industrial hygiene.

7.2 Conditions for safe storage, including any incompatibilities

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.

7.3 Product uses

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 and personal protection

8.1 Control parameters

Workplace exposure limits:
Subtilisins, 0.04 µg/m³, WEL 8 hour TWA (EH40 UK).

8.2 Exposure controls

These measures 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.

Eye protection:	Wear eye protection appropriate to the process according to BS EN 166.
Hand protection:	Wear pvc or latex gloves. Exact choice of glove depends on specific risk assessments.
Body protection:	As necessary to prevent contact.
Respiratory protection:	Avoid breathing spray mist, wear a protective mask to EN149 if necessary.
Other protection:	-
Personal protective equipment:	Exact PPE requirements should be determined from a specific risk assessment of the processes being carried out. 
Environmental protection:	Prevent mixture from entering water courses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Color:	Blue
Odour:	Characteristic
pH:	8.6 as supplied (typical), 8.4 at 2 ml/l (typical)
Initial boiling point:	> 100 °C
Melting/ freezing point:	N/A
Flash point:	N/A
Auto-ignition temperature:	N/A
Flammability:	N/A
Viscosity:	5 cSt (typical)
Explosive properties:	None
Upper and lower explosion limits:	None
Oxidising properties:	None
Vapour pressure:	No data
Solubility:	Miscible with water
Relative density at 20 °C:	1.038 (typical)
Relative vapour density:	No data

9.2 Other information

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SECTION 10: Stability and reactivity

10.1 Reactivity

Incompatible with strong oxidising agents and acids.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions are expected to occur.

10.4 Conditions to avoid

Extreme temperatures.

10.5 Incompatible materials

Incompatible with strong oxidising agents and acids.

10.6 Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	Contains low level of sensitising material (see section 3), mixture is not classified as sensitising.
Germ cell mutagenicity:	Does not contain any ingredients classified as mutagenic.
Carcinogenicity:	Does not contain any ingredients classified as carcinogenic.
Reproductive toxicity:	Does not contain any ingredients classified as toxic for reproduction.
STOT single exposure:	Based on available data, the classification criteria are not met.
STOT repeated exposure:	Does not contain any ingredients classified as STOT RE.
Aspiration toxicity:	Does not contain any ingredients classified as Asp Tox.

Routes of exposure/symptoms

Eye contact:	Will cause irritation.
Skin contact:	Prolonged or repeated contact may cause irritation/dryness.
Inhalation:	Not a hazard in normal use. Breathing spray mist may cause irritation/allergic reaction.
Ingestion:	Calculated acute toxicity (Oral) >60,000 mg/kg. Will cause irritation to gastro-intestinal tract.

11.2 Information on other hazards

None

SECTION 12: Ecological information

12.1 Toxicity

Not classified as dangerous for the environment.

12.2 Persistence and degradability

All organic ingredients are biodegradable when well diluted.
Surfactants used meet biodegradability criteria, see section 15.

12.3 Bioaccumulative potential

Not expected to bioaccumulate.

12.4 Mobility in soil

This product has high water solubility.

12.5 Results of PBT and vPvB assessment

Contains no ingredients classified as PBT or vPvB.

12.6 Endocrine disrupting properties

No known endocrine disrupting properties.

12.7 Other adverse effects

No other adverse effects are anticipated.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Process effluent can normally be discharged to foul sewer (subject to consent limits).

Dispose of surplus product and packaging via a licensed chemical waste contractor.

Empty cleaned containers can be recycled where facilities exist or sent for landfill or incineration where permitted.

SECTION 14: Transport information

14.1 UN number

Not classified.

14.2 UN proper shipping name

N/A

14.3 Transport hazard class(es)

N/A

14.4 Packing group

N/A

14.5 Environmental hazards

This product is not classified as environmentally hazardous.

14.6 Special precautions for user

No specific precautions.

14.7 Maritime transport in bulk according to IMO instruments

Not available for bulk transport.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Contents according to Regulation (EC) No. 648/2004 on detergents:

Amphoteric surfactants: <5 %
Anionic surfactants <5 %
Nonionic surfactant <5 %
Preservative
Enzymes

The surfactant(s) contained in this preparation comply with the biodegradability criteria laid down in Regulation (EC) No. 648/2004 on detergents.

Data to support this assertion are held at the disposal of the competent authorities of the member states and will be made available to them at their direct request.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements relating to ingredients (see section 3).

H315	Causes skin irritation.
H335	May cause respiratory irritation.
H318	Causes serious eye damage.
H302	Harmful if swallowed.
H334	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
H330	Fatal if inhaled.

Date of Issue:
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This product should be stored, handled and used in accordance with good industrial practice and in conformity with legal regulations. The information in this data sheet is based on the present state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be construed as guaranteeing specific properties. It is for users to satisfy themselves of the suitability of this product for their own applications.