

# Getinge Clean

## MIS Detergent

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

#### 1.1 Product identifier

Product code: PF-094  
Name: Getinge Clean MIS Detergent

#### 1.2 Product uses

A biofilm-removing enzymatic detergent for use in washer-disinfectors, ultrasonic baths and the manual cleaning of medical devices. Specially formulated to clean complex minimally invasive surgical instruments. Suitable for use on water resistant surfaces such as stainless steel, ceramics, glass, plastics and soft metals.

#### 1.3 Supplier

Details of the supplier of the Safety Data Sheet.

Supplier:  
Getinge Disinfection AB  
Ljungadalsgatan 11, Box 1505  
SE-351 15 Växjö, Sweden  
Phone: +46 (0)10 335 98 00  
Web: [www.getinge.com](http://www.getinge.com)  
E-mail: [info@getinge.com](mailto: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 4643

Supplier Australia:  
Getinge Australia Pty Ltd  
1/160 Lytton Road  
Morningside, QLD 4170  
Australia  
Phone: +61 733 993 311

#### 1.4 Emergency telephone number

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

EU: +44 (0) 123 523 96 70  
Australia: +61 280 144 558  
Japan: +81 345 789 341  
China: +86 105 100 30 39  
Middle East: +44 (0) 123 523 96 71  
New Zealand: +64 992 914 83

## SECTION 2: Hazards identification (undiluted product)

### 2.1 Classification of the substance or mixture

According to 1272/2008

Health hazards:	Not classified as hazardous.
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### 2.2 Label elements

According to 1272/2008

Hazard pictograms:	None
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Signal word:	None
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Danger:	None
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Hazard statements:	None
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Precautionary statements:

P261	Avoid breathing mist, spray, vapours.
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P262	Do not get in eyes, on skin, or on clothing.
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P281	Use personal protective equipment as required. See section 16 for definition.
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### 2.3 Other hazards

Contains enzymes. May produce an allergic reaction.

## SECTION 3: Composition/information on ingredients

Material	CAS number	Level	Hazards (see section 16)
Subtilisins (Protease)	9014-01-1	<1 %	Skin Irrit.2, H315 Eye Dam.1, H318 Resp.Sens.1, H334 STOT SE 3, H335 Not classified at this concentration
Lipase (Triacyl glycerol)	9001-62-1	<1 %	Not classified at this concentration
Amylase	9000-90-2	<1 %	Resp.Sens.1, H334 Not classified at this concentration
Cellulase	9012-54-8	<1 %	Resp.Sens.1, H334 Not classified at this concentration
Ingredients determined not to be hazardous	N/A	To 100 %	-

Material	CAS number	Level	GHS Classification according to Regulation (EC) No. 1272/2008 (CLP)
Alkoxylated alcohol	68937-66-6	4.1 %	Not classified at this concentration
Boric acid	10043-35-3	0.3 %	Repr. 1B, H360FD Not classified at this concentration
Glycerine Halal Kosher	56-81-5	3.5 %	Not classified at this concentration
Propylene Glycol Halal Kosher	57-55-6	5 %	Not classified at this concentration
Pure enzyme protein	9014-01-1	1 %	Skin Irrit. 2, H315 Eye Dam. 1 H318 Resp. Sens.1, H334 STOT SE 3, H335 Not classified at this concentration
C37H34N2Na2O9S3 Blue Dye CI 42090	3844-45-9	0.001 %	Not classified at this concentration
Water	7732-18-5	86.15%	-

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Eye contact:	Rinse with plenty of running water for at least 10 minutes. Seek medical attention if symptoms occur.
Skin contact:	Remove contaminated clothing, wash skin with water and seek medical attention if symptoms occur.
Inhalation:	Remove to fresh air. Seek medical attention if symptoms occur.
Ingestion:	Do not induce vomiting. If conscious, give water to rinse mouth and one or two glasses of water to drink. Contact a doctor or a Poisons Information Centre.

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

Unknown.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Fire fighting measures

Not applicable.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

### 6.2 Environmental precautions

Not applicable.

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

Absorb spill with inert material. Spill area should be flushed with water to sewer (avoid high pressure rinsing). Do not use cleaning methods that generate aerosol. Spilled concentrate should be removed as soon as possible. Rinse with excess water.

## SECTION 7: Handling and storage

Shelf life: 48 months from the manufacturing date.

### 7.1 Precautions for safe handling

Working processes must be organized in a manner that prevents the inhalation of aerosols and mists or skin and eye contact.

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

Store in a cool, dry place protected from frost heat and direct sunlight away from acids and strong oxidizing agents. Store upright in original containers. Keep container closed when not in use. Storage temperature 5–25 °C.

### 7.3 Product uses

Dosing range 0.5–8 ml/l. Dosages below 1.5 ml/l water should only be considered with soft or treated water. Check materials compatibility before use. Ensure complete rinsing after use. Do not mix with other chemicals.

## SECTION 8: Exposure controls and personal protection

### 8.1 Control parameters

Workplace exposure limits:

Borate ion, 1mg/m<sup>3</sup>, REL-TWA (NIOSH)

Subtilisin, 0.04 µg/m<sup>3</sup>, WEL 8 hour TWA

Cellulase, 0.06 µg/m<sup>3</sup>, WEL 8 hour TWA

Lipase, 0.06 µg/m<sup>3</sup>, WEL 8 hour TWA

Amylase, 0.06 µg/m<sup>3</sup>, WEL 8 hour TWA

### 8.2 Exposure controls

These measures are recommended on the basis of common application methods and may not be appropriate to all potential applications of the product. The user is responsible for carrying out a full risk assessment for their specific processes and systems of work.

Eye protection:	Wear eye protection if splashing is likely.
Hand protection:	Wear nitrile or neoprene gloves. Exact choice of glove depends on specific risk assessments.
Body protection:	As necessary to prevent contact.
Respiratory protection:	Use in a well ventilated area. Avoid breathing vapour or spray. Wear a respirator if necessary.
Other protection:	N/A
Personal protective equipment:	Exact PPE requirements should be determined from a specific risk assessment of the processes being carried out.



Environmental protection:	N/A
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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Blue liquid
Odour:	Faint odour
Odour threshold:	N/A
Melting point:	N/A
Flash point:	N/A
Evaporation rate:	N/A
Flammability:	N/A
Upper/lower flammability or explosive limits:	N/A
Auto-ignition temperature:	N/A
Explosive properties:	N/A
Oxidising properties:	None
Decomposition temperature:	N/A
Vapour pressure:	No data
Vapour density:	N/A
Relative density at 20 °C:	1.05–1.12
Solubility:	Easily soluble in water
Partition coefficient:	n-octanol/water Not applicable
Viscosity:	Less than 10 cSt
pH as supplied (typical):	7.6–9.0
Boiling point:	>100 °C

### 9.2 Other information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not reactive.

### 10.2 Chemical stability

The mixture is stable at normal ambient temperature (5–25 °C).

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Storing at temp above +25 °C.

### 10.5 Incompatible materials

Incompatible with oxidising agents and acids.

### 10.6 Hazardous decomposition products

Does not decompose when used as intended.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Eye contact:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards. May cause irritation in sensitized individuals.
Inhalation:	Not hazard in normal use. Breathing spray mist may cause irritation.
Ingestion:	Exposure can cause nausea, headache and vomiting.
Long term:	Based on current knowledge, no long term effects are anticipated if used as recommended.

## SECTION 12: Ecological information

### 12.1 Toxicity

Not classified as dangerous for the environment.

### 12.2 Persistence and degradability

Ingredients contained in this preparation comply with the biodegradability criteria of Regulation (EC) No. 648/2004 on detergents.

### 12.3 Bioaccumulative potential

Unknown.

### 12.4 Mobility in soil

Unknown.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed as PBT or vPvB.

### 12.6 Other adverse effects

No other adverse effects are anticipated.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal of unwanted product should be done in accordance with local, state or national legislation. Empty containers should be rinsed with large quantity of water, and can be reused or recycle. Could be disposed of to landfill or incinerated where permitted. Avoid release to the environment.

## SECTION 14: Transport information

### 14.1 UN number

Not classified

Tariff/TARIC 3402 90 90

### 14.2 UN proper shipping name

N/A

### 14.3 Transport hazard class(es)

N/A

### 14.4 Packing group

N/A

## SECTION 15: Regulatory information

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

Contents enzymes. The formulation contains boron compounds at the combined level below the specific concentration limit of the relevant classification criteria as per GHS classification.

### 15.2 Chemical safety assessment

Product safety phrases:

P261	Avoid breathing mist, spray, vapours.
P262	Do not get in eyes, on skin, or on clothing.
P281	Use personal protective equipment as required.

## SECTION 16: Other information

Hazard statements relating to ingredients (see section 3).

Product safety phrases:

P261	Avoid breathing mist, spray, vapours.
P262	Do not get in eyes, on skin, or on clothing.
P281	Use personal protective equipment as required.

Definition of hazard statement codes:

H315	Causes skin irritation.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Date of issue:  
2018-10-05

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.

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SE-351 15 Växjö, Sweden  
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**GETINGE** 