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# Getinge Clean Neutralizer Plus

According to Regulation (EC) No. 1907/2006

## Safety Data Sheet

**GETINGE**  
GETINGE GROUP

6001643602\_MSDS\_NeutralizerPlus\_EN\_Rev.A



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### SECTION 1: Identification of the Substance/Mixture and on the Company/Undertaking

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- 1.1 Product Identifier
- Product code XV1560
- Trade name Getinge Clean Neutralizer Plus
- 1.2 Product Uses
- Acidic detergent for removal of rust and scale from stainless steel medical instruments. Can also be used for cleaning and descaling stainless steel washer disinfectors and as a process additive for pH neutralisation of alkaline residues. For use on stainless steel instruments only.
- 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)
- Unit 4, 10 Cryers Road
- East Tamaki, Auckland
- Botany 2163
- New Zealand
- Phone: +64 927 290 393
- 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 mixture
2.1.1	According to 1272/2008	Health Hazards: Eye Dam. 1, Skin Corr. 1B. Physical Hazards: Met. Corr. 1. Environmental Hazards: Not Classified.
2.1.2	According to 1999/45/EC	Classification according to directive 1999/45/EC: Corrosive
2.2	Label elements	
2.2.1	According to 1272/2008	<p>Danger </p> <p>H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H290 May be corrosive to metals. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305 + P351 + P338 + P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/ attention. P303+P361+P353 + P313 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Get medical advice/ attention. P390 Absorb spillage to prevent material damage. P405 Store locked up.</p>
2.2.2	According to 1999/45/EC	<p>Corrosive </p> <p>R34 Causes burns. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with plenty of water.</p>
2.3	Other Hazards	Strongly acidic product, use with caution.

## SECTION 3: Composition/Information on Ingredients

3.1				
	Material	CAS number	Level	Hazards (see section 16)
	Orthophosphoric acid	7664-38-2	30-50%	Skin Corr. 1B H314
	Nitric acid	7697-37-2	1-5%	Skin Corr. 1A H314

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## SECTION 4: First Aid Measures

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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 immediately.
	Skin contact:	Remove contaminated clothing, wash skin with water and seek medical attention immediately.
	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:	Causes burns..
	Skin hazard:	Causes burns.
	Respiratory hazard:	Breathing spray mist will cause irritation.
	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.

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## SECTION 5: Fire Fighting Measures

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	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	May cause toxic fumes in a fire..
5.3	Advice for firefighters:	No special measures arising from the mixture.

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## SECTION 6: Accidental Release Measures

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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.

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## SECTION 7: Handling and Storage


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	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 alkalis and strong oxidising agents. Store upright in original containers. Recommended storage temperature 5–25°C.
7.3	Product Uses	<p>Confirm compatibility of all contact materials before use.</p> <p>Instruments. For use on stainless steel instruments only. Use a 10–100ml/lit solution in water at up to 50°C for 10–60 minutes depending on the severity of staining. Rinse the treated instruments thoroughly with clean water before reprocessing.</p> <p>Machines. Add 5–10ml/lit in a descaling cycle at &gt;60°C followed by a rinse process.</p> <p>Neutralisation. Add as required to achieve the necessary pH reduction.</p>

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## SECTION 8: Exposure Control and Personal Protection

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8.1	Control parameters	<p>Workplace exposure limits</p> <table border="0"> <tr> <td>Orthophosphoric acid</td> <td>1mg/m<sup>3</sup></td> <td>WEL 8 hour TWA (EH40 UK)</td> </tr> <tr> <td>Nitric acid</td> <td>2.6mg/m<sup>3</sup></td> <td>WEL 15 min STEL (EH40 UK)</td> </tr> </table>	Orthophosphoric acid	1mg/m <sup>3</sup>	WEL 8 hour TWA (EH40 UK)	Nitric acid	2.6mg/m <sup>3</sup>	WEL 15 min STEL (EH40 UK)
Orthophosphoric acid	1mg/m <sup>3</sup>	WEL 8 hour TWA (EH40 UK)						
Nitric acid	2.6mg/m <sup>3</sup>	WEL 15 min STEL (EH40 UK)						
8.2	Exposure controls	<p>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.</p> <p>Eye protection: Wear a full face visor to BS EN 166 39B</p> <p>Hand protection: Wear pvc or latex gloves. Exact choice of glove depends on specific risk assessments.</p> <p>Body protection: As necessary to prevent contact.</p> <p>Respiratory protection: Avoid breathing spray mist, wear a protective mask to EN149 if necessary.</p> <p>Other protection: Personal protective equipment:</p> <div style="text-align: center;">  </div> <p>Exact PPE requirements should be determined from a specific risk assessment of the processes being carried out.</p> <p>Environmental protection: Prevent mixture from entering water courses.</p>						

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## SECTION 9: Physical and Chemical Properties

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### 9.1 Information on basic physical and chemical properties

Appearance:	Colourless liquid	
Odour:	Mild, characteristic	
pH:	<1 as supplied (typical). pH 2 at 5ml/l (typical)	
Initial boiling point:	>100 °C	Flash point: N/A
Auto-ignition temperature:	N/A	Viscosity: 5.4 cSt
Explosive properties:	N/A	
Oxidising properties:	N/A	
Vapour pressure:	No data	
Solubility:	Miscible with water	
Relative density at 20 °C:	1.282 (typical)	

### 9.2 Other information

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## SECTION 10: Stability and Reactivity

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10.1	Reactivity	Incompatible with strong oxidising agents and alkalis..
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 alkalis.
10.6	Hazardous decomposition products	May produce toxic fumes in fire.

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## SECTION 11: Toxicological Information

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### 11.1 Information on toxicological effects

Acute toxicity:	Does not contain any ingredients classified as acutely toxic.
Skin corrosion/irritation:	Product is classified as Skin Corr 1B. See section 2.
Serious eye damage/irritation:	Product is classified as Eye Dam 1. See section 2..
Respiratory or skin sensitisation:	Does not contain any ingredients 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:	Does not contain any ingredients classified as STOT SE.
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:	Causes burns.
Skin contact:	Causes burns.
Inhalation:	Breathing spray mist will cause irritation.
Ingestion:	Calculated acute toxicity (oral) 4000mg/kg. Will cause irritation and damage to gastro-intestinal tract due to acidity.

SECTION 12: Ecological Information

12.1	Toxicity	Not classified as dangerous for the environment. May affect aquatic organisms due to low pH if released into water courses untreated.
12.2	Persistence and degradability	All organic ingredients are biodegradable when well diluted.
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	Other adverse effects	No other adverse effects are anticipated.



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## SECTION 13: Disposal Considerations

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13.1	Waste Treatment Methods	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. Process effluent can normally be discharged to foul sewer (subject to consent limits). May require pH neutralisation.
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## SECTION 14: Transport Information

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14.1	UN Number:	3264 Tariff/TARIC 3402 90 90
14.2	UN Proper Shipping Name:	Corrosive liquid, acidic, inorganic, N.O.S.
14.3	Transport Hazard Class(es):	8
14.4	Packing Group:	3
14.5	Environmental hazards:	This product is not classified as environmentally hazardous.
14.6	Special precautions for user	No specific precautions.
14.7	Transport in bulk according to Annex II of MARPOL 7 3/78 and the IBC Code	Not available for bulk transport.

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## SECTION 15: Regulatory Information

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15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	Contents according to (EC) regulation No. 648/2004 on detergents:
15.2	Chemical Safety Assessment	A chemical safety assessment has not been carried out.

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## SECTION 16: Other Information

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Hazard statements relating to ingredients (see section 3):	H314 Causes severe skin burns and eye damage
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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.

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**GETINGE GROUP**

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