

**Section 1. Identification of the material and the supplier**

Product: **Getinge Clean Neutralizer Plus**  
 Product Code: XV1560, 504300231  
 Product Use: Acidic detergent for removal of rust and scale from stainless steel medical instruments. Can also be used for cleaning and descaling stainless steel washer-disinfector chambers and as a process additive for pH neutralization of alkaline residues. For use on stainless steel instruments only.

<b>ANZ Distributor:</b>	<b>Getinge Australia</b>	<b>Getinge Australia (NZ Branch)</b>
Address	11 Help Street Level 7, Suite 701 Chatswood NSW 2067 AUS	600 Great South Road Building B, Level 2 Ellerslie, Auckland, 1051 NZ
Telephone	1800 438 464	0800 1 438 4643

**Emergency Telephone:** AUS +61 2 8014 4558  
 NZ +64 9 929 1483 or 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 13 June 2023

**Section 2. Hazards Identification**

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

**EPA Approval Code:**  
**Cleaning Products (Corrosive) Group Standard 2020 – HSR002526**

**Pictograms**



Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Corrosive to metals Cat. 1	H290	May be corrosive to metals.
Skin corrosion Cat. 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage Cat. 1	H318	Causes serious eye damage.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P234	Keep only in original packaging.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.

P264	Wash hands thoroughly after handling.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P301 + P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage Code	Storage Statement
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

### Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Orthophosphoric acid	30 - 50	7664-38-2
Nitric Acid	1 - 5	7697-37-2

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. Seek immediate medical attention.
If Swallowed	Rinse mouth. Do NOT induce vomiting. Never give anything to the mouth of an unconscious person. Give small amounts of water to drink. 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. Call a POISON CENTER or doctor/physician if you feel unwell.
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:

<b>Ingestion:</b>	Not applicable.
<b>Inhalation:</b>	Breathing spray mist will cause irritation.
<b>Skin:</b>	Causes severe skin burns.
<b>Eye:</b>	Causes serious eye damage.

## Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Not flammable or combustible
<b>Hazards from combustion products</b>	May cause toxic fumes in a fire.
<b>Suitable Extinguishing media</b>	Use extinguishing media appropriate for primary source of fire.
<b>Precautions for firefighters and special protective clothing</b>	No special measures arising from the mixture.
<b>HAZCHEM CODE</b>	<b>2X</b>

## Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. Ensure adequate ventilation. Avoid contact with skin and eyes. Spillage may make floors slippery.

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

Shelf life: 36 months in original sealed containers.

### Precautions for Handling:

- Read carefully and follow all instructions.
- Keep only in original packaging.
- Do not breathe dust, fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Wear protective clothing as detailed in Section 8.
- Do not mix with other products.
- Observe good industrial hygiene.

### Precautions for Storage:

- Keep out of reach of children.
- Store locked up.
- Store in corrosive resistant container with a resistant inner liner.
- 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.

### Product Uses:

- Confirm compatibility of all contact materials before use.
- Instruments. For use on stainless steel instruments only. Use a 10–100 ml/lt 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.
- Machines. Add 5-10 ml/lt in a descaling cycle at >60 °C followed by a rinse process.
- Neutralization. Add as required to achieve the necessary pH reduction.

**Section 8****Exposure Controls / Personal Protection****WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance		TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Phosphoric acid	[7664-38-2]	-	1	-	-
Nitric acid	[7697-37-2]	2	5.2	4	10

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 13<sup>TH</sup> EDITION.

**Engineering 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.

**Personal Protection Equipment:**

<b>Eyes</b>	Wear a full face visor according to BS EN 166 39B.
<b>Hands</b>	Wear PVC or latex gloves. Exact choice of glove depends on specific risk assessments.
<b>Skin</b>	Choose body protection to prevent contact.
<b>Respiratory</b>	Avoid breathing spray mist, wear a protective mask to EN149 if necessary.
<b>Hygiene Measures</b>	Wash hands before breaks and after work. Avoid contact with skin and eyes.

**Section 9****Physical and Chemical Properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Colourless
<b>Odour</b>	Mild Characteristic
<b>Odour Threshold</b>	Not available
<b>pH @ 20°C</b>	<1 as supplied (typical), pH 2 at 5 ml/l (typical)
<b>Boiling Point</b>	>100°C
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not flammable
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Relative Density @ 20°C</b>	1.282 (typical)
<b>Water Solubility</b>	Miscible with water
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Viscosity</b>	5.4 cSt
<b>Particle Characteristics</b>	Not applicable

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No hazardous reactions are expected to occur.
<b>Conditions to Avoid</b>	Extremes of temperature.
<b>Incompatible Materials</b>	Incompatible with strong oxidising agents and alkalis.
<b>Hazardous Decomposition Products</b>	May produce toxic fumes in fire.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Does not contain any ingredients classified as acutely toxic. Calculated acute toxicity (oral) 4000 mg/kg. Will cause irritation and damage to gastro-intestinal tract due to acidity.
<b>Dermal</b>	Does not contain any ingredients classified as acutely toxic.
<b>Inhalation</b>	Does not contain any ingredients classified as acutely toxic.
<b>Eye</b>	Causes serious eye damage.
<b>Skin</b>	Causes severe skin burns.

### Chronic Effects:

<b>Carcinogenicity</b>	Does not contain any ingredients classified as carcinogenic.
<b>Reproductive Toxicity</b>	Does not contain any ingredients classified as toxic for reproduction.
<b>Germ Cell Mutagenicity</b>	Does not contain any ingredients classified as mutagenic.
<b>Aspiration</b>	Does not contain any ingredients classified as Asp Tox.
<b>STOT/SE</b>	Does not contain any ingredients classified as STOT SE.
<b>STOT/RE</b>	Does not contain any ingredients classified as STOT RE.

## Section 12. Ecotoxicological Information

Not classified as dangerous for the environment. May affect aquatic organisms due to low pH if released into water courses untreated.

<b>Product:</b>	
<b>Persistence and degradability</b>	All organic ingredients are biodegradable when well diluted.
<b>Bioaccumulation</b>	Not expected to bioaccumulate.
<b>Mobility in Soil</b>	This product has high water solubility.
<b>Other adverse effects</b>	No other adverse effects are anticipated.

## Section 13. Disposal Considerations

### Disposal Method:

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. Process effluent can normally be discharged to foul sewer (subject to consent limits). May require pH neutralization.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Corrosive" and that the label also has the Corrosive Pictogram, waste type identifier, and the business name, address, and phone number.

**Disposal methods to avoid:** None known.

Product Name: **Getinge Clean Neutralizer Plus**  
Date of SDS: 13 June 2023

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd  
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**Section 14 Transport Information**

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

**Road, Rail, Sea and Air Transport**

<b>UN No</b>	3264
<b>Class - Primary</b>	8
<b>Packing Group</b>	II
<b>Proper Shipping Name</b>	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
<b>Marine Pollutant</b>	No
<b>Special Provisions</b>	If the product's individual container is below 1L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

**Section 15 Regulatory Information****EPA Approval No:**

Cleaning Products (Corrosive) Group Standard 2020 – HSR002526

Trigger quantities for this substance:

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	250L
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

**Section 16 Other Information****Glossary**

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	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 April 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

#### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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

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