

# GETINGE CLEAN

Material Safety Data Sheet

## Neutralizer

### Intended use

A mild organic acid for use in washer disinfectors for the neutralization of alkaline detergents and the removal of hard water scale and other acid soluble minerals on medical devices. Neutralizer will effectively reduce the pH of rinse water after alkaline processes. Suitable for all acid resistant surfaces such as stainless steel, ceramics, glass and plastics.

### 1. Identification of the substance/preparation and company

Name: Neutralizer

Supplier:

Getinge Disinfection AB, Ljungadalsgatan 11

Box 1505, SE-351 15 Växjö, Sweden

Phone: +46 (0)10 335 98 00

**Emergency number:**

**Europe: +44 (0) 1235 239 670**

**Australia: +61 2801 44558**

**USA: 001866 928 0789 (toll free)**

Web: <http://www.getinge.com>

E-mail: [info.disinfection@getinge.com](mailto:info.disinfection@getinge.com)

### 2. Hazards identification (Undiluted product)

CHIP classification: Irritant.

Eye hazard: Will cause irritation.

Skin hazard: Will cause irritation.

Respiratory hazard: Not a hazard in normal use. Breathing spray mist may cause irritation.

Flammability hazard: Not combustible.

Other hazards:

### 3. Composition/information on ingredients

Material	CAS number	Level	Hazards (see section 16)
Citric acid	77-92-9	>30%	Xi R36/38

### 4. 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 soap and water. 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.

### 5. Fire fighting measures

Not applicable.

### 6. Accidental release measures

Absorb using sand or other inert material and transfer to suitable containers for disposal.

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#### 7. Handling and storage

Store in a cool, dry place protected from frost and away from alkalis and strong oxidizing agents. Store upright in original containers. Optimum storage temperature 5-25°C.

**Directions for use:** Neutralization: dose range 1-2 ml/lt. Temperature range 40-60°C.  
Cleaning: dose range 1-5 ml/lt at temperatures >50°C.  
Do not use on polycarbonate material.  
Ensure that all materials exposed to the process are acid resistant.  
Ensure complete rinsing after use.  
Do not mix with other chemicals.

**Shelf life:** 18 months in original sealed containers.

#### 8. Exposure controls/personal protection

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 chemical splash goggles to EN 166 34B.

**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 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.

**Occupational exposure limits**

None set

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#### 9. Physical and chemical properties

Appearance:	Colourless to pale yellow liquid
Odour:	Characteristic
pH as supplied (typical):	1,2
pH at 0.5% in water (typical):	2,2
Boiling point:	>100°C
Melting point:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	Not applicable
Explosive properties:	None
Oxidising properties:	None
Vapour pressure:	No data
Relative density at 20° C:	1,17
Solubility:	Miscible with water
Viscosity:	<10 cps

#### 10. Stability and reactivity

Conditions to avoid:	Extremes of temperature.
Materials to avoid:	Incompatible with strong oxidising agents and alkalis. Avoid contact with acid sensitive materials.
Hazardous decomposition products:	None known.

#### 11. Toxicological information

Eye contact:	Will cause irritation.
Skin contact:	Will cause irritation.
Inhalation:	Breathing spray mist may cause irritation.
Ingestion:	Low toxicity. May cause irritation to gastro-intestinal tract due to acidity.
Long term:	Based on current knowledge, no long term effects are anticipated if used correctly.

#### 12. Ecological information

May affect aquatic organisms due to low pH if released into water courses untreated.

#### 13. Disposal considerations

Disposal of unwanted product should be done in accordance with local, state or national legislation. Empty cleaned containers can be recycled where facilities exist or sent for landfill or incineration where permitted.

#### 14. Transport information

Transport Classification: Not Classified  
UN Number: Not Classified  
Transport Class: Not Classified  
Packing Group: Not Classified

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#### 15. Regulatory information

CHIP Classification: Irritant



Irritant

##### Product risk and safety phrases

R36/38 Irritating to eyes and skin.

S37/39 Wear suitable 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.

S2 Keep out of reach of children.

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

Data prepared in accordance with EU regulation 1907/2006.

#### 16. Other information

R phrases relating to ingredients (see section 2)

R36/38 Irritating to eyes and skin.

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.

Always consult and follow recommendations for reprocessing of medical device according to the manufactures guidelines in accordance with EN ISO 17664.