

# Getinge XEN

## QuadX

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

#### 1.1 Product identifier

Catalog No: 6036002501  
Name: QuadX

#### 1.2 Product uses

A neutral pH, low-foaming, quadruple enzyme detergent for cleaning medical instruments and devices. For use in sinks and ultrasonic cleaners.

#### 1.3 Supplier

Details of the supplier of the Safety Data Sheet.

Manufacturer:  
Quadralene Limited  
Unit 3  
St. Modwen Park  
Andressey Way  
Derby  
DE21 6YH  
UNITED KINGDOM  
Phone: +44 (0)1332 292500  
Web: [www.getinge.com](http://www.getinge.com)  
E-mail: [info@getinge.com](mailto:info@getinge.com)

Supplier:  
Getinge USA Sales, LLC  
1 Geoffrey Way  
Wayne, NJ 07470-2094  
USA  
Phone: 1-800-521-6224

#### 1.4 Emergency telephone number

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

US and Canada: +1 215 207 0061 (English, Spanish and French)

## SECTION 2: Hazards identification (undiluted product)

### 2.1 Classification of the substance or mixture

Health hazards:	Resp. Sens. 1.
Physical hazards:	Not classified.
Environmental hazards:	Not classified.

### 2.2 Label elements

Danger



H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
P261	Avoid breathing fumes, mists, vapors, or spray.
P284	In case of inadequate ventilation, wear respiratory protection.
P304+P341	IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a comfortable position for breathing.
P342+P311	If experiencing respiratory symptoms: Call a poison center or doctor.
P501	Dispose of contents and container in accordance with local, regional, national, and international regulations.

### 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)
Subtilisins	9014-01-1	<0.1 %	232-752-2	01-2119480434-38
Nonionic surfactant	120313-48-6	<1 %		
1,2-benzisothiazol-3(2H)-one	2634-33-5	<0.05 %	220-120-9	01-2120761540-60
Lipase	9001-62-1	<0.1 %	232-619-9	
Amylase	9000-90-2	<0.1 %	232-565-6	01-2119938627-6
Cellulase	9012-54-8	<0.1 %	232-734-4	

## 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 oxidizing agents. Store upright in original containers. Recommended storage temperature 41-77°F (5-25°C).

### **7.3 Product uses**

Refer to instrument/device manufacturer's instructions before use.

#### **Manual and Ultrasonic Use:**

Dilute 0.26-0.51 oz/gal (2.0-4.0 ml/L) of water, at a temperature of 77-113°F (25-45°C).

Soak items for a minimum of 2 minutes. Rinse and flush items thoroughly after cleaning. Discard solution according to facility policy.

Do not mix with other chemicals.

For professional use only.

## SECTION 8: Exposure controls and personal protection

### 8.1 Control parameters

Workplace exposure limits:

Triethanolamine

Cal/OSHA	PEL-TWA	5 mg/m <sup>3</sup>
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### 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 impervious 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.
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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Color:	Blue
Odor:	Characteristic
pH:	8.6 as supplied (typical), 8.4 at 2 ml/l (typical)
Initial boiling point:	>212°F (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
Oxidizing properties:	None
Vapor pressure:	No data
Solubility:	Miscible with water
Relative density at 68°F (20°C):	1.038 (typical)
Relative vapor density:	No data

### 9.2 Other information

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Incompatible with strong oxidizing 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 oxidizing 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 sensitization:	Product is classed as Resp. Sens. 1, see section 2.
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 gastrointestinal 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.

### **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**

Not classified as environmentally hazardous for transport.

### **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**

All components of this product are listed as "Active" on the Toxic Substances Control Act (TSCA) Inventory or may be otherwise exempt.

### **15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

All components of this product are listed as "Active" on the Toxic Substances Control Act (TSCA) Inventory or may be otherwise exempt.



Date of Issue:  
2024-01-30

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.