

## Material Safety Data Sheet

<b>1. Identification of the substance/preparation and company/undertaking.</b>					
<b>Name:</b>	LC143	<b>MSDS No.</b>	10254		
<b>Synonyms:</b>	N/A				
<b>Supplied by:</b>	ELGA LabWater, VWS (UK) Ltd. Lane End Industrial Park, High Wycombe Bucks. HP14 3BY, England				
<b>2. Composition/information on ingredients</b>					
<b>Description:</b>	Plastic cartridge containing reverse osmosis membrane and preservative solution				
<b>Contains:</b>	(1) 1, 2-benzisothiazolin-3-one (2) Sodium Hydroxide				
<b>Chemical</b>	<b>% Conc</b>	<b>Classification</b>	<b>Exposure</b>	<b>CAS</b>	<b>EINECS</b>
(1)	0.017-0.023	Xn, R22-38-43		2634-33-5	220-120-9
(2)	0.007-0.013	C; R35	2 mg/m <sup>3</sup>	1310-73-2	215-185-5
<b>3. Hazards identification</b>					
Causes burns, harmful if swallowed. Toxic to fish. Very toxic to algae					
<b>4. First Aid measures</b>					
<b>Exposure Route</b>	<b>Symptom</b>	<b>Treatment</b>			
<b>Inhalation</b>	Coughing, wheezing	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek medical attention			
<b>Skin Contact</b>	Irritation, burns, sensitization	Drench the skin with plenty of water. Remove contaminated clothing and wash before re-use. If large area of the skin is damaged or if irritation persists, seek immediate medical attention			
<b>Eye Contact</b>	Irritation, reddening, burns	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention			
<b>Ingestion</b>	Stomach upset, nausea, vomiting	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell, seek medical attention.			
<b>5. Fire Fighting Measures</b>					
<b>Suitable Extinguishers</b>		Foam, dry powder, carbon dioxide.			
<b>Hazardous Combustion Products</b>		Not classified as flammable but if involved in a fire, it may evolve noxious/toxic fumes.			
<b>Special Equipment for Fire Fighting</b>		Self contained breathing apparatus and full protective clothing if large numbers are involved.			

## 6. Accidental Release Measures

### Safety Precautions

Wear suitable personal protective equipment goggles and PVC gloves, boots and overalls.

### Environmental Precautions

Spillages or uncontrolled discharges into water courses must be alerted to the appropriate authority.

### Clean up Procedure

Absorb spillage onto sand, earth or other suitable adsorbent. Transfer to containers, treat with a 10% solution of sodium metabisulphite. Seal the containers and hold for waste disposal. Wash the spillage area

## 7. Handling and Storage

### Handling

#### Ventilation

Good general ventilation

### Prohibited procedures & equipment

### Recommended procedures & equipment

Avoid contact with skin and eyes. Do not create aerosols

### Storage

#### Temperature range

Ambient

Keep away from oxidising agents, acids, reducing agents, mild steel, copper, aluminium and zinc.  
Suitable storage media - Stainless steel, polyethylene

## 8. Exposure Controls/Personal Protection

### Exposure Limits

OES 2 mg/m<sup>3</sup> STEL (sodium hydroxide)

### Respiratory

N/A

### Hand/Skin

Protective gloves. Overalls, boots

### Eye

Use chemical goggles

### Hygiene Measures

Always wash thoroughly after handling chemicals

## 9. Physical & Chemical Properties

### Appearance

Brown liquid

### Odour

Bland

### pH

ca. 13.5

### Boiling Point/range

ca.100°C

### Melting Point/range

-<0°C

### Flammability

Not flammable

### Oxidizing Properties

No data

### Relative Density

1.0

### Solubility in Water

Dispersible

### Solubility in Solvent

No data

<b>10. Stability &amp; Reactivity</b>			
<b>Stability</b>	Can react with oxidizing agents, acids and reducing agents		
<b>Conditions to Avoid</b>	No data		
<b>Materials to Avoid</b>	Oxidizing agents, acids, reducing agents, mild steel, copper, aluminium and zinc		
<b>Hazardous Decomposition Products</b>	Oxides of nitrogen, oxides of sulphur		
<b>11. Toxicological Information</b>			
<b>Effects</b>	Inhalation may be harmful if present as aerosols. Causes burns to skin. Extremely severe irritation to eyes. Harmful if swallowed causing irritation of gastro-intestinal tract. Unlikely to be carcinogenic to man		
<b>LD 50</b>	1221 mg/kg (female) 2175 mg/kg (male) oral rat		
<b>12. Ecological Information</b>			
<b>Environmental Effects</b>	Based on information available on the components		
<b>Mobility</b>			
<b>Degradability</b>	Evidence of photodegradation in water. Evidence of degradation in soil		
<b>Bioaccumulative Potential</b>	Low potential for bioaccumulation		
<b>Aquatic Toxicity</b>	LC <sub>50</sub> (rainbow trout, 96 hour follow-through) 7.0 mg/l LC <sub>50</sub> (bluegill sunfish 95 hour, flow through) 30.1 mg/l EC <sub>50</sub> Phaeodactylum tricornutum 72 hour: 0.37 mg/l Classified as a marine pollutant.		
<b>13. Disposal Considerations</b>			
<b>Substance</b>	Via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations		
<b>Container</b>	As substance		
<b>14. Transport Information-</b>			
	B Not classified		
<b>UN Number</b>	1719	<b>Class/Item No</b>	8, 42° (b)
<b>Primary Hazard</b>	Corrosive substance	<b>Subsidiary Hazard</b>	
<b>Packing Group</b>	II	<b>Emergency Action Code</b>	2X
<b>HI Number</b>	80		

## 15. Regulatory Information

### Supply Label Details

<b>Label Name</b>		Proxel GXL contains 1, 2 benzisothizol-3(2H)-one, sodium salt
<b>Symbols</b>		Corrosive
<b>Risk Phrases</b>	R34	Causes burns.
	R22	Harmful if swallowed.
	R43	May cause sensitisation by skin contact
<b>Safety Phrases</b>	S23	(vapour spray) Do not breathe vapour spray.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
	S51	Use only in well ventilated areas.

**Use of this material may be governed by the following regulations:** No detail

## 16. Other information

<b>This product is used</b>	Only in water purification plant.
<b>It must not be used for</b>	Other purposes unless agreed in writing by Veolia Water VWS (UK) Ltd.
<b>Legal Disclaimer</b>	The information herein is given in good faith and to the best of our knowledge but no warranty, expressed or implied, is made.
<b>Last Revised</b>	16 <sup>th</sup> September 2008