

# SAFETY DATA SHEET



<b>Product Name:</b>		<b>LQBr</b>	
<b>Version No.</b>	2	<b>Revision date</b>	01-06-2015
		<b>Initial issue date</b>	18-02-2004

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

<b>1.1 Product Identifier</b>	LQBR	
<b>1.2 Relevant/Use(s)/misuse(s)</b>	Industrial	
<b>1.3 SDS Supplier</b>	Beacon Water Treatments Limited Parsons Hall Industrial Estate High Street Irchester, NN29 7AB 01604 505735 (Office hours)	<b>Telephone:</b> 01933 410066
<b>1.4 Emergency Telephone</b>		<b>Competent Person e-mail:</b> trevor@rising-hsande.co.uk

## 2. HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF THE SUBSTANCE

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Skin Corr. 1B H314

#### 2.1.2 Additional information

For text of hazard statements, see section 16

### 2.2 LABELLING ELEMENTS

#### 2.2.1 Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)

**Pictogram(s):**



**Signal word**

DANGER

**Hazard statement(s)**

H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

**Precautionary statement(s)**

- P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.
- P312 CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.
- P303+361+353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER.
- P305+351+338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

**2.3 Other hazards** Contact with acids liberates toxic gas (chlorine). Liberates oxygen on heating

**Product Name:**

**LQBr**

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Characterisation**

AQUEOUS ALKALINE SOLUTION PLUS ADDITIVES

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
SODIUM HYPOCHLORITE	7681-52-9	231-668-3	Skin Corr. 1B H314; Aquatic Acute 1 H400	>10% active chlorine

### 4. FIRST AID MEASURES

#### 4.1 Description of measures

<b>Inhalation</b>	Remove casualty to fresh air and provide warmth and rest; if necessary, seek medical advice
<b>Skin contact</b>	Immediately clean areas of skin affected with soap and plenty of water. If necessary, seek medical advice.
<b>Eye contact</b>	Immediately wash out eye thoroughly with plenty of water until irritation subsides. If necessary, consult an eye specialist/ophthalmologist.
<b>Ingestion</b>	If product is swallowed, do NOT induce vomiting. Drink plenty of water; if necessary, seek medical advice.

**4.2 Most important effects/symptoms** None known.

**4.3 Immediate/special treatment** Treatment as described above.

### 5. FIRE FIGHTING MEASURES

<b>5.1 Extinguishing media</b>	To suit local surroundings (e.g. water mist, carbon dioxide, foam, chemical powder for large fires). The product is not flammable
<b>5.2 Special hazards</b>	Decomposition products released in a fire (i.e. Oxygen and chlorine) should be considered as probably harmful if inhaled.
<b>5.3 Advice for fire fighters</b>	Wear self-contained breathing apparatus. Avoid run-off water entering the drains (e.g. use barriers)

### 6. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions</b>	Adhere to personal protective measures.
<b>6.2 Environmental precautions</b>	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
<b>6.3 Methods and materials for cleaning up</b>	Bund or absorb material with inert material (eg sand, NOT sawdust). Transfer liquid if possible to a salvage tank; otherwise absorb on inert material and transfer to suitable containers for waste disposal
<b>6.4 Reference to other sections</b>	See section 8 for personal protective equipment.

### 7. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>	Handle in accordance with good hygiene and safety practice. Do not mix with other cleaning agents.
<b>7.2 Conditions for safe storage</b>	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry. Suitable storage: vented containers of glass, PVC, GRP, suitably lined mild steel, high density polyethylene
<b>7.3. Specific end use(s)</b>	Industrial

**Product Name:**

**LQBr**

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>8.1 Controls parameters</b>	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls if chlorine is released.
	LTEL (8 hour TWA):            0.5 ppm            1.5 mg/m <sup>3</sup> WEL data for chlorine
	STEL (15 min.):                1 ppm                3 mg/m <sup>3</sup> WEL data for chlorine
<b>8.2 Exposure controls</b>	
<b>Engineering controls</b>	Ensure adequate ventilation of working area.
<b>Personal protection</b>	Observe normal standards for handling chemicals. Wash hands before breaks and after work. Avoid contact with skin and eyes. Wear personal protective equipment appropriate to the task (see below)
<b>Eye protection</b>	Safety goggles (e.g. EN 166) if splashing is likely.
<b>Skin protection</b>	Gloves (e.g. Nitrile; also consider your own risk assessment.)
<b>Respiratory protection</b>	Approved respirator (e.g. EN 149:2001 FFP3) if ventilation is insufficient.
<b>Other protection</b>	Protective overall

## 9. PHYSICAL & CHEMICAL PROPERTIES

### 9.1 Basic physical and chemical properties

<b>Physical form</b>	Liquid
<b>Colour</b>	Clear green/yellow
<b>Odour</b>	Chlorine
<b>Odour threshold</b>	No data available
<b>pH</b>	>13
<b>Boiling pt / range</b>	110 °C
<b>Melting pt / range</b>	-17 °C
<b>Flash point</b>	Not applicable °C
<b>Auto ignition temp.</b>	Not applicable °C
<b>Evaporation rate</b>	Not applicable
<b>Relative density</b>	1.26
<b>Flammability</b>	Not flammable but will liberate oxygen on heating
<b>Explosion limits</b>	Not applicable
<b>Vapour pressure</b>	17.5mm Hg @ 20°C
<b>Relative vapour density</b>	Not determined
<b>Water solubility</b>	Miscible
<b>Thermal decomposition</b>	No data available
<b>Viscosity</b>	Not applicable
<b>Partition coefficient</b>	Log P <sub>o/w</sub> = Not determined
<b>Explosive properties</b>	Not applicable
<b>Oxidising properties</b>	Strong oxidising agent

17.5

**Product Name:** **LQBr**

## 9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties

9.2 Other information           None known

## 10. STABILITY AND REACTIVITY

10.1 Reactivity                   Contact with acids liberates toxic gas (chlorine). Violent reactions with ammonia, ammonium compounds and organic material

10.2 Chemical stability           Unstable, decomposes to form sodium chloride and sodium chlorate liberating oxygen

10.3 Hazardous reactions       None known.

10.4 Conditions to avoid       Heat, strong sunlight.

10.5 Incompatible material       Acids, ammonium salts, methanol, hydrocarbons, copper, nickel, iron, monel metal

10.6 Hazardous decomposition products   Oxygen, chlorine

## 11. TOXICOLOGICAL INFORMATION

### 11.1 information on toxicological effects

Acute toxicity                   LD<sub>50</sub> rat (oral)                   8910 mg/kg

Dermal compatibility           No data available. Possible effects: irritation, blistering or prolonged contact

Mucous membrane compatibility   No data available. Possible effects: pain, reddening, watering

Further information           Ingestion may lead to formation of chlorine gas by reaction with stomach contents; inhalation of chlorine gas will cause bronchial and pulmonary oedema. Symptoms may be delayed for 48 hours or more

## 12. ECOLOGICAL INFORMATION

12.1 Toxicity                   LC<sub>50</sub>           Aquatic organisms                   mg/l           No data available

12.2 Degradability           No data available. Material will degrade slowly to sodium chloride, sodium chlorate and oxygen

12.3 Bioaccumulative potential   Not determined

12.4 Mobility in soil           Not determined

12.5 PBT/vPvB assessment       Not applicable

12.6 Other adverse effects       Likely to be toxic to aquatic organisms. Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.

## 13. DISPOSAL CONSIDERATIONS


### 13.1 Waste treatment measures

Advice on disposal           In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.

Contaminated packaging       Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

**Product Name:** **LQBr**

## 14. TRANSPORT INFORMATION

<b>14.1 United Nations number</b>	UN 1791 (ADR, IMDG, IATA)	
<b>14.2 Proper shipping name</b>	SODIUM HYPOCHLORITE SOLUTION (ADR, IMDG, IATA)	
<b>14.3 Transport class(s)</b>	8 (ADR, IMDG, IATA)	
<b>14.4 Packing group</b>	III (ADR, IMDG, IATA)	
<b>14.5 Environmental hazards</b>	The product should not be marked as a marine pollutant. (ADR, IMDG, IATA)	
<b>14.6 Special procedures</b>	Not applicable (ADR, IMDG, IATA)	
<b>14.7 Transport in bulk</b>	Not applicable (ADR, IMDG, IATA)	

## 15. REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations</b>	The product is classified in accordance with EC Regulation 1272/2008 (CLP). Other regulatory information and provisions are not applicable for this product.
<b>15.2 Chemical safety assessment</b>	Not applicable

## 16. OTHER INFORMATION

**Further information** The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)

**Hazard statements referred to in sections 2/3**

H314: Causes severe skin burns and eye damage.  
H400: Very toxic to aquatic life.

**Sources of data** Other suppliers' safety data sheets

**Date of issue** 01-06-2015

**This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.**