

SAFETY DATA SHEET



Product Name:

BWT Ag-Chlor

Version No. 2	Revision date 01-06-2015	Initial issue date 18-02-2004
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1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

1.1 Product Identifier	BWT AG-CHLOR		
1.2 Relevant/Use(s)/misuse(s)	Industrial		
1.3 SDS Supplier	Beacon Water Treatments Limited Parsons Hall Industrial Estate High Street Irchester, NN29 7AB		Telephone: 01933 410066
1.4 Emergency Telephone	01604 505735 (Office hours)	Competent Person e-mail: 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

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation

AQUEOUS ALKALI 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

Inhalation	Remove casualty to fresh air and provide warmth and rest; if necessary, seek medical advice
Skin contact	Immediately clean areas of skin affected with soap and plenty of water. If necessary, seek medical advice.
Eye contact	Immediately wash out eye thoroughly with plenty of water until irritation subsides. If necessary, consult an eye specialist/ophthalmologist.
Ingestion	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

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

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions	Adhere to personal protective measures.
6.2 Environmental precautions	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
6.3 Methods and materials for cleaning up	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
6.4 Reference to other sections	See section 8 for personal protective equipment.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling	Handle in accordance with good hygiene and safety practice. Do not mix with other cleaning agents.
7.2 Conditions for safe storage	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
7.3. Specific end use(s)	Industrial

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Controls parameters	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 ³ WEL data for chlorine
	STEL (15 min.): 1 ppm 3 mg/m ³ WEL data for chlorine
8.2 Exposure controls	
Engineering controls	Ensure adequate ventilation of working area.
Personal protection	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)
Eye protection	Safety goggles (e.g. EN 166) if splashing is likely.
Skin protection	Gloves (e.g. Nitrile; also consider your own risk assessment.)
Respiratory protection	Approved respirator (e.g. EN 149:2001 FFP3) if ventilation is insufficient.
Other protection	Protective overall

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties

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

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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 LD₅₀ 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 LC₅₀ 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.

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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

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

Data sheet prepared by Rising HS&E Services.