SAFETY DATA SHEET

Product Name: **Bechlor 935**

Version No. 2	**Revision date** 01-06-2015	**Initial issue date** 03-06-2003

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

1.1 Product Identifier Bechlor 935

1.2 Relevant/Use(s)/misuse(s) Stabilised chlorine dioxide precursor

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)

Acute Tox. 4 H302
Acute Tox. 3 H311
Skin Corr. 1 H314
STOT RE 2 H373

2.1.2 Additional information

For text of hazard statements, see section 16

2.2 LABELLING ELEMENTS

Pictogram(s):  

Signal word DANGER

Hazard statement(s)	H302	HARMFUL IF SWALLOWED.
	H311	TOXIC IN CONTACT WITH SKIN'
	H314	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
	H373	MAY CAUSE DAMAGE TO THE LUNGS THROUGH PROLONGED OR REPEATED EXPOSURE.
Precautionary statement(s)	P280	WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.
	P310	IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. .
	P301+330+331	IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.
	P303+361+353	IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER.
	P304+P340	IF INHALED: REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING.
	P501	DISPOSE OF CONTENTS/CONTAINER TO HAZARDOUS OR SPECIAL WASTE COLLECTION SITE IN ACCORDANCE WITH LOCAL / REGIONAL / NATIONAL OR INTERNATIONAL REGULATIONS

2.3 Other hazards See section 8.1

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation AQUEOUS SOLUTION CONTAINING SODIUM CHLORITE

Chemical name	CAS-No	EINECS/ELINCS	Classification	Concentration
SODIUM CHLORITE	7758-19-2	231-856-6	Ox. Liq. 3 H272; Acute Tox. 3 H301; Acute Tox. 2 H310; Skin Corr. 1 H314; H318; STOT RE 2 H373; Aquatic Acute 1 H400	10-20%

4. FIRST AID MEASURES

4.1 Description of measures

Inhalation If inhaled, provide fresh air, warmth, rest and 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, seek medical advice. .

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 Water spray. The product is not flammable. Do not use gaseous media, organic material

5.2 Special hazards Decomposition products released in a fire should be considered as probably harmful if inhaled. Cool endangered containers with water (to prevent container explosion). In case of spreading, avoid drying out by washing with plenty of water. Dried product can promote spreading of fire.

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 Take up with absorbent material, e.g. sand, sawdust, into tightly closed containers. Label container and dispose of as prescribed.

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.

7.2 Conditions for safe storage Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool (< 25°C) and dry. Do not store on wooden surfaces.

7.3. Specific end use(s) See section 1.2

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Controls parameters Although there are no occupational exposure limit values available for the product, they have been assigned for chlorine dioxide, released by acid contact (EH40/2011)

LTEL (8 hour TWA)	0.1	ppm	0.28	mg/m^3
STEL (15 min)	0.3	ppm	0.84	mg/m^3

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. PVC or PE) (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)

Respiratory protection Approved respirator if ventilation is insufficient.

Other protection Protective overall

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties

Physical form	Liquid	
Colour	Pale greenish yellow	
Odour	Characteristic	
Odour threshold	No data available	
pH	13-14	
Boiling pt / range	From 100	ºC
Melting pt / range	Not determined	ºC
Flash point	Not applicable	°C
Auto ignition temp.	Not applicable	°C
Evaporation rate	Not applicable	
Relative density	1.05-1.10	
Flammability	Not applicable	
Explosion limits	Not applicable	
Vapour pressure	Not applicable	
Relative vapour density	Not determined	

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties

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	Not applicable
9.2 Other information	None known

10. STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions of handling.
10.2 Chemical stability	Stable under normal conditions of handling.
10.3 Hazardous reactions	With organic substances (e.g. wood, paper, fats).
10.4 Conditions to avoid	Heat and direct sunlight.
10.5 Incompatible material	Contact with acidic materials (e.g. acids, aluminium chloride, ferric chloride, magnesium sulphate) promotes formation of chlorine dioxide with risk of explosion. Contact with reducing agents (e.g. sodium sulphite) may cause violent exothermic reactions. Contact with combustible substances may cause fire and possible explosion.
10.6 Hazardous decomposition products	Reacts with acids to produce chlorine dioxide (ClO_2)

11. TOXICOLOGICAL INFORMATION

11.1 information on toxicological effects

Acute toxicity	LD_{50} rat(oral)	200-2000	mg/kg	Data for undiluted sodium chlorite
Dermal compatibility	No data available			
Mucous membrane compatibility	No data available			
Further information	Inhalation of aerosols causes severe irritation of respiratory tract. Inhalation of ClO_2 may cause lung oedema.			

12. ECOLOGICAL INFORMATION

12.1 Toxicity	LC_{50}	Zebra fish	> 500	mg/l	96 hours (OECD 203)
12.2 Degradability	Readily degradable				
12.3 Bioaccumutive potential	Not determined				
12.4 Mobility in soil	Not determined				
12.5 PBT/vPvB assessment	Not applicable				
12.6 Other adverse effects	Sodium chlorite is classified as very 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

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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.

14. TRANSPORT INFORMATION

14.1 United Nations number	UN 1496 (ADR, IMDG, IATA)
14.2 Proper shipping name	SODIUM CHLORITE SOLUTION (ADR, IMDG, IATA)
14.3 Transport class(s)	5.1 (ADR, IMDG, IATA)
14.4 Packing group	II (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)
The product has been classified using an additivity formula or the tiered approach using generic concentration limits [Regulation (EC) No 1272/2008]

Hazard statements referred to in sections 2/3

H272: May intensify fire; oxidiser.
H301: Toxic if swallowed
H302: Harmful if swallowed
H310: Fatal in contact with skin.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H373: May cause damage to organs through prolonged or repeated exposure. .
H400: Very toxic to aquatic life.

Sources of data Other suppliers' safety data sheets, EH40(2011), ECHA C&L Inventory

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.