

SAFETY DATA SHEET



Product Name: **BROKIL 99**

Version No. 2 Revision date 03-11-2015 Initial issue date 03-06-2003

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

1.1 Product Identifier BROKIL 99

1.2 Relevant/Use(s)/misuse(s) Industrial

1.3 SDS Supplier Beacon Water Treatments Limited
Parsons Hall Industrial Estate
High Street Telephone: 01933 410066
Irchester NN29 7AB

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)

Ox. Sol. 2 H272
Acute Tox. 4 H302
Skin Corr. 1B H314.
Aquatic Acute 1 H400

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)

H272 MAY INTENSIFY FIRE; OXIDISER.
H302 HARMFUL IF SWALLOWED
H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H400 VERY TOXIC TO AQUATIC LIFE.

Precautionary statement(s)

P220 KEEP/STORE AWAY FROM CLOTHING/STRONG ACIDS/STRONG BASES/OXIDISING AGENTS/STRONG REDUCING AGENTS.
P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.
P312 CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.
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.
P305+351+338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.
P501 DISPOSE OF CONTENTS/CONTAINER TO HAZARDOUS OR SPECIAL WASTE COLLECTION SITE IN ACCORDANCE WITH LOCAL / REGIONAL / NATIONAL OR INTERNATIONAL REGULATIONS

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2. HAZARDS IDENTIFICATION

2.3 Other hazards None known

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation A HALOGENATED DIMETHYLIMIDAZOLIDINE-2,4-DIONE

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
1-BROMO-3-CHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE	16079-88-2	240-230-0	Ox. Sol. 2 H272; Acute Tox. 4 H302; Skin Corr. 1B H314; Aquatic Acute 1 H400	>99%

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. 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). Do not use foam, chemical powder. The product is not flammable
5.2 Special hazards	Decomposition products released in a fire 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). Cool containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions	Adhere to personal protective measures. Avoid production and inhalation of dust
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 as appropriate, e.g. sweep or vacuum up, into tightly closed containers. Label container and dispose of as prescribed. Do not use combustible materials or paper towels to clean up.
6.4 Reference to other sections	See section 8 for personal protective equipment.

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7. HANDLING AND STORAGE

7.1 Precautions for safe handling	Handle in accordance with good hygiene and safety practice. Avoid production and inhalation of dust. Keep away from incompatible substances.
7.2 Conditions for safe storage	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry. Avoid high temperatures.
7.3. Specific end use(s)	Industrial

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Controls parameters	There are no occupational exposure limit values available Comply with good practice for the control of exposure.
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	Suitable gloves (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	Solid
Colour	Whitish
Odour	Chlorine-like
Odour threshold	No data available
pH	Not determined
Boiling pt / range	Not applicable °C
Melting pt / range	159 °C
Flash point	Not applicable °C
Auto ignition temp.	Not applicable °C
Evaporation rate	Not applicable
Density	0.96 g/cm ³ @ 20°C
Flammability	Not applicable
Explosion limits	Not applicable
Vapour pressure	Not applicable
Relative vapour density	Not determined
Water solubility	Slightly soluble
Thermal decomposition	No data available

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9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties

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
10.3 Hazardous reactions	May react with acids to produce toxic gases.
10.4 Conditions to avoid	None known.
10.5 Incompatible material	Strong acids, strong bases, oxidising agents, strong reducing agents
10.6 Hazardous decomposition products	None known

11. TOXICOLOGICAL INFORMATION

11.1 information on toxicological effects

Acute toxicity	LD ₅₀ rat (oral)	mg/kg	No data available
Dermal compatibility	No data available but may cause skin burns		
Mucous membrane compatibility	No data available but may cause eye damage		

12. ECOLOGICAL INFORMATION

12.1 Toxicity	EC ₅₀	Aquatic organisms	mg/l	No data available
12.2 Degradability	No data available			
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	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.

14. TRANSPORT INFORMATION

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14. TRANSPORT INFORMATION

14.1 United Nations No.	UN 3085 (ADR, IMDG, IATA)
14.2 Proper shipping name	OXIDIZING SOLID, CORROSIVE, N.O.S. (ALKYLDIMETHYL BENZYLAMMONIUMCHLORIDE1-BROMO-3-CHLOR0-5,5-DIMETHYLMIDAZOLIDINE-2,4-DIONE (ADR, IMDG, IATA)
14.3 Transport class(s)	5.1, 8 (ADR, IMDG, IATA)
14.4 Packing group	II (ADR, IMDG, IATA)
14.5 Environmental hazards	The product SHOULD 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]
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Hazard statements referred to in sections 2/3

H272: May intensify fire; oxidiser.
H302: Harmful if swallowed
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.

Sources of data	Other suppliers' safety data sheets, EH40(2011), ECHA C&L Inventory
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Date of issue	03-11-2015
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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.