

Section 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

Phrases used in s.2 and s.3:

H302+H312: Harmful if swallowed or in contact with skin H315: Causes skin irritation.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

This product is for use only as a bubble column biocide for control of contamination & infection risks associated with bubble columns. When added at the correct rate of 20 ml per metre of column the active dose is 80-120ppm of active Bronopol and presents no known significant hazard to users.

This SDS was compiled using external data from our suppliers and independent laboratories and the information given is in good faith and to the best of our (Lynd Products Ltd) knowledge is correct.

This document does NOT constitute the users own risk assessment of workplace risk as required by current legislation.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

First issue of fully revised SDS 19/06/2020

Safety Data Sheet BCB Water Treatment Fluid

Compilation date: 04/06/2020

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product Identifier****1.2. Relevant identified uses of the substance or mixture and uses advised against**

Product name: BCB Water Treatment for Bubble Columns & Tubes (Concentrated solution in bottle)

Use of substance / mixture: For control of infection risk and prevention of Algae in Bubble Column features.

1.3. Details of the supplier of the safety data sheet

Company name: Lynd Products Ltd
Shalom Main Street
Summerbridge Harrogate HG3 4JR
Tel: 01765 618070
Fax: 01765 522007
Email: admin@lyndproducts.co.uk

1.4. Emergency telephone number

Emergency tel: 01765 618070 07736 516861
(office hours only) (24Hr)

Section 2: Hazards identification (refers to concentrate and not correctly dosed water in column)**2.1. Classification of the substance or mixture**

Classification under CLP: Acute Tox. 4: H302+H312; Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Irritant. 2: H315; STOT SE 3: H335

Most important adverse effects: Harmful if swallowed or in contact with skin Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life.

2.2. Label elements

Label elements:

Hazard statements:

H302+H312: Harmful if swallowed or in contact with skin H315: Causes skin irritation.

H318: Causes serious eye damage. H400: Very toxic to aquatic life.

Hazard pictograms: **GHS07:** Exclamation mark **GHS09:** Environmental



Signal words: Danger

Precautionary statements:

P262: Do not get in eyes, on skin, or on clothing.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310: IF

SWALLOWED: Immediately call a POISON CENTER or doctor.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor.

2.3. Other Hazards**Section 3: Composition / information on ingredients****3.1. Substances**

PBT: This product is not identified as a PBT/vPvB

Substance/mixture : Mixture

Ingredient Name	%	CAS No.
BRONOPOL Liquid 1,3-Propanediol, 2-bromo-2-nitro-	5 - 10 %	52-52-7

Section 4: First Aid Measures**4.1. Description of first aid measures**

Skin contact: Drench the affected skin with running water for. If irritation persists consult a doctor

Eye contact: Bathe the eye with running water for 15 minutes. If irritation persists consult a doctor

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If discomfort persists consult a doctor

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures**5.1. Extinguishing media**

Immediate / special treatment: Not applicable.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Non- Flammable liquid

5.3. Advice for fire fighters

Advice for fire-fighters: Non – Flammable Liquid

Section 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions: Clean any spillage of concentrated product up with disposable tissue or cloths before bagging and disposing in waste.

6.2. Environmental precautions

Environmental precautions: Do not discharge concentrate into drains or rivers in concentrated form

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container or bag for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage**7.1. Precautions for safe handling**

Handling requirements: Avoid direct contact skin with the concentrated substance in bottle.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool area. Keep container tightly closed, in a locked location. Away from children and vulnerable individuals.

7.3. Specific end use(s)

Specific end use(s): For the prevention of infection risks from bubble column features.

Section 8: Exposure controls/personal protection**8.1. Control parameters**

Workplace exposure limits: No data available.

8.2. Exposure Controls

DNEL / PNEC: No data available.

Engineering measures: Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Non

Hand protection: Disposable Butyl gloves. Nitrile gloves. Rubber gloves. PVC gloves. Breakthrough time of the glove material > 1 hour. To protect hands from chemicals, gloves should comply with European Standard EN374

Eye protection: Safety glasses. Ensure eye bath is to hand. When handling this product, the use of safety glasses with side shields is recommended. The applicable European Standard can be found in EN 166.

Skin protection: Avoid contact with concentrate – wash immediately if occurs

Section 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

State: Liquid
Color: Straw
Odor: Faint

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity**10.1. Reactivity**

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Non specific.

10.5. Incompatible materials**10.6. Hazardous decomposition products**

Materials to avoid: Strong oxidising agents. Strong acids. Brass, Zinc, Aluminium, Tin

Section 11: Toxicological information**11.1. Information on toxicological effects**

Toxicity values:

Route	Species	Test	Value	Units
IHL	RAT	LC50	>5000	mg/M3/6hr
ORL	RAT	LD50	180	mg/kg
SKN	RAT	LD50	1600	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	DRM ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

11.2. Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

There may be vomiting.

Inhalation: N/A

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information**12.1. Toxicity**

Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	41.2	mg/l

12.2. Persistence and biodegradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

12.4. Mobility in soil**12.5. Results of PBT and vPvB assessment**

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Concentrate is toxic to aquatic organisms. Toxic to soil organisms.

Section 13: Disposal considerations**13.1. Waste treatment methods**

Disposal operations: Non concentrate from waste disposal plant, in accordance with local council regulations.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transportation information**14.1. UN number**

UN number: UN3082

14.2. UN proper shipping name

Shipping name: 2-BROMO-2-NITROPROPANE-1,3-DIOL

14.3. Transport hazard class(es)

Transport class: 4.1

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D

Transport category: 3

Section 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical safety assessment**