

SAFETY DATA SHEET

SECTION 1 Identification of the substance or preparation and of the company/undertaking

1.1 Product identifier

- Product Name: Biotek 792
- Datasheet Number: 792

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: Liquid biocide for the control of bacteria, fungi and algae in open recirculating systems, evaporative condensers and closed systems.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Western Environmental Ltd
- Address of Supplier: Western House
Owen Road
Britonwood Trading Estate
Knowsley
Merseyside
UK
L33 7YP
- Telephone: +44 (0) 151 546 1000
- Fax: +44 (0) 151 546 5777
- Responsible Person: Dr Joseph Tames\Mr Ken Ward
- Email: joe.tames@westerngroup.co.uk

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 151 546 1000

SECTION 2 Hazards identification

Classification according to Regulation (EC) No 1272/2008

2.1 Classification of the substance or mixture

- CHIP:
- CLP: H314
- Skin Corr. 1B

2.2 Label elements



- Symbols: GHS05
- Signal Word: Danger
- Hazard phrases
H314 - Causes severe skin burns and eye damage.
- Precautionary Phrases
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 - Wash contaminated clothing before reuse.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 2 Hazards identification (....)2.3 Other hazards

SECTION 3 Composition/information on ingredients

3.1 Substances

- sodium hypochlorite, solution
CAS Number: 7681-52-9
EC Number: 231-668-3
Categories: Skin Corr. 1B Aquatic Acute 1
R/H Phrases: H314,H400, EUH031, R31,R34,R50
- sodium hydroxide; caustic soda
CAS Number: 1310-73-2
EC Number: 215-185-5
Categories: Skin Corr. 1A
R/H Phrases: H314, R35

3.2 Mixtures

- <Chemical Name>
CAS Number:
EC Number:
Concentration:
Categories:
R/H Phrases:
-

SECTION 4 First aid measures

4.1 Description of first aid measures

- P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- S43 - In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture

- Thermal decomposition will evolve bromine which is toxic.

5.3 Advice for firefighters

- Wear chemical protection suit and positive-pressure breathing apparatus
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SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
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SECTION 6 Accidental release measures (....)

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses

6.3 Methods and material for containment and cleaning up

- If a rag is used to absorb a small spillage, thoroughly wet the rag and dispose of into a closed metal container
- Absorb spillage in earth or sand
- Place in appropriate container
- Seek expert advice for removal and disposal of all contaminated materials and wastes

6.4 Reference to other sections

- None
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SECTION 7 Handling and storage

7.1 Precautions for safe handling

- No special precautions are required for this product

Before eating, drinking or smoking wash hands with soap and water.

7.2 Conditions for safe storage, including any incompatibilities

- Store above 10 °C
- S3/7/9 - Keep container tightly closed, in a cool, well ventilated place

7.3 Specific end use(s)

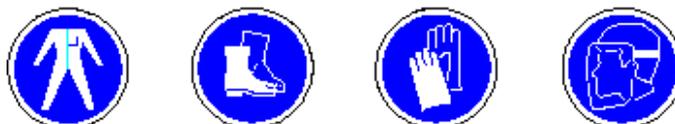
- No information available.
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SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- WEL (long term) 1.0 mg/m³
- WEL (short term) 3 mg/m³

8.2 Exposure controls



- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
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SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Slight chlorine.
 - pH:>11
 - Boiling point 101 °C to 105 °C at 760 mm /Hg
 - Completely soluble in water
 - Specific gravity (water=1) 1.33
 - Appearance: Orange liquid
 - Odour:
 - pH:
 - Melting point/Range:
 - Freezing point/Range:
 - Boiling Point/Range:
 - Flammability:
 - Specific Gravity:
 - Solubility in water:
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SECTION 9 Physical and chemical properties (....)

- Oxidising Properties:

9.2 Other information

- None
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SECTION 10 Stability and reactivity

10.1 Reactivity

- Contact with acids releases bromine gas.

10.2 Chemical stability

- Stability: The product is stable.

10.3 Possibility of hazardous reactions

- Do not mix with acids.

10.4 Conditions to avoid

- Avoid contact with acid
- S15 - Keep away from heat
- Keep away from frost

10.5 Incompatible materials

- R31 - Contact with acids liberates toxic gas

10.6 Hazardous Decomposition Products

- Decomposition products may include toxic gas
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SECTION 11 Toxicological information

11.1 Information on toxicological effects

- The ingestion of significant quantities may cause gastro-intestinal disturbances
 - Prolonged skin or eye contact may cause chemical burns
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SECTION 12 Ecological information

12.1 Toxicity

- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

12.2 Persistence and degradability

- Readily biodegradable

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- None.

12.6 Other Adverse Effects

- No information available
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SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Do not discharge untreated concentrate into drains
 - P501 - Dispose of contents/container to an authorised waste collection point
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SECTION 14 Transport information

14.1 UN Number

- UN No.: 3266

14.2 UN Proper Shipping Name

- Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

14.3 Transport hazard class(es)

- Hazard Class: 8

14.4 Packing group

- Packing Group: II

14.5 Environmental hazards

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- DOT Proper Shipping Name:
 - Hazardous Material:
 - Hazard Class:
 - Identification Number:
 - Product RQ (lbs):
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SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Refer to current COSHH Regulations
- Refer to current CHIP Regulations

15.2 Chemical Safety Assessment

SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- EUH031: Contact with acids liberates toxic gas. H314: Causes severe skin burns and eye damage. H400: Very toxic to aquatic life. R31: Contact with acids liberates toxic gas. R34: Causes burns. R35: Causes severe burns. R50: Very toxic to aquatic organisms.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Western Environmental Ltd and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.