

## SAFETY DATA SHEET

**SECTION 1 Identification of the substance/mixture and of the company/undertaking**

## 1.1 Product identifier

- Product Name: Biotek 710
- Datasheet Number: 710

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

- Use of the substance/mixture: 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: Mr Ken Ward
- Email: ken.ward@westerngroup.co.uk

## 1.4 Emergency telephone number

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

**SECTION 2 Hazards identification**

## 2.1 Classification of the substance or mixture

- CHIP: R43 - May cause sensitisation by skin contact, R36/38 - Irritating to eyes and skin
- CLP: Skin Sens. 1, Eye Irrit. 2, Skin Irrit. 2

## 2.2 Label elements



- Signal Word: Warning
- Hazard phrases
  - H317 - May cause an allergic skin reaction.
  - H319 - Causes serious eye irritation.
  - H315 - Causes skin irritation.
- Precautionary Phrases
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
  - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P337+P313 - If eye irritation persists: Get medical advice/attention.
  - P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
  - P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

## 2.3 Other hazards

**SECTION 3 Composition/information on ingredients**

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**SECTION 3 Composition/information on ingredients (....)**

## 3.1 Substances

## 3.2 Mixtures

- reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-4-isothiazolin-3-one [EC no. CAS Number: 55965-84-9  
Categories: Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1  
  
R/H Phrases: H301, H311, H331, H314, H317, H400, H410  
Concentration: 1.4% (in finished product)
  - magnesium nitrate  
CAS Number: 10377-60-3  
EC Number: 233-826-7  
Categories: Ox. Sol. 3, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3  
R/H Phrases: H272 May intensify fire;oxidiser, H315 - Causes skin irritation., H319 - Causes serious eye irritation., H335 - May cause respiratory irritation.  
Concentration: 0.44% (in product)
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**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.
- P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Give plenty of water to drink

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

- No information available

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

- No information available.
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**SECTION 5 Fire-fighting measures**

## 5.1 Extinguishing media

- P370+P378 - In case of fire: use water, foam or dry agent for extinction

## 5.2 Special hazards arising from the substance or mixture

- May give off noxious and toxic fumes in a fire

## 5.3 Advice for firefighters

- Self contained breathing apparatus and full protective clothing must be worn in case of fire.
  - Keep container(s) exposed to fire cool, by spraying with water
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**SECTION 6 Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

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## SECTION 6 Accidental release measures (....)

- Wear protective clothing as per section 8
- 6.2 Environmental Precautions
- Do not allow to enter public sewers and watercourses
- 6.3 Methods and material for containment and cleaning up
- Absorb spillage in inert material and shovel up
  - 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
- Ensure adequate ventilation
  - S24/25 - Avoid contact with skin and eyes
- 7.2 Conditions for safe storage, including any incompatibilities
- P233 - Keep container tightly closed.
  - P410+P403 - Protect from sunlight. Store in a 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
- (Germany) MAK 0.2 mg/m<sup>3</sup>
- May cause sensitisation by skin contact.

(Germany) TRGS 900 (2000) Exposure limit(s): 0.05mg/m<sup>3</sup>  
Dermal absorption possible.

Switzerland SUVA Limit values (2005) Exposure limit(s): 0.2mg/m<sup>3</sup>  
S (Sensitiser)  
Short term exposure limit: 0.4mg/m<sup>3</sup> (4 times 15min. per shift)

### 8.2 Exposure controls



Respiratory protection: In the case of vapour formation use a respirator with an approved filter. Respirator with a vapour filter (EN141). Respirator with ABEK filter.

Hand protection: Suitable material: Nitrile rubber. Break through time :>480min.  
Take note of the information given by the producer concerning permeability and break through times and of special workplace conditions (mechanical strain, duration of contact).

Eye contact: Tightly fitting safety goggles and face shield.

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the workplace. Rubber or plastic apron. rubber or plastic boots.

Hygiene measures: Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing and gloves, including the inside before re-use.

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## SECTION 8 Exposure controls/personal protection (....)

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer system.

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## SECTION 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Water white liquid
- Odour: Perceptible odour
- pH: pH 2.5 - 5.5 at 100 % concentration
- Melting point/Range: -3 deg.C
- Freezing point/Range: ca. 0 deg.C
- Boiling Point/Range: ~100 deg. C
- Flammability: Not flammable
- Specific Gravity: Specific gravity (water=1) 1.000 - 1.050
- Solubility in water: Completely soluble in water
- Oxidising Properties: Not applicable

### 9.2 Other information

- No information available
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## SECTION 10 Stability and reactivity

### 10.1 Reactivity

- Stable under normal temperature conditions and recommended use.

### 10.2 Chemical stability

- Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

- Stable under normal conditions.

### 10.4 Conditions to avoid

- No data available

### 10.5 Incompatible materials

- Incompatible with oxidizing substances
- Incompatible with reducing agents
- Incompatible with amines

### 10.6 Hazardous Decomposition Products

- Decomposition products may include nitrogen oxides
  - Decomposition products may include hydrogen chloride
  - Decomposition products may include sulphur oxides
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## SECTION 11 Toxicological information

### 11.1 Information on toxicological effects

- LD50 (oral, rat) 689 mg/kg
- LD50 (dermal) : rabbit: >600 mg/kg

Skin irritation: Corrosive; Species rabbit; Exposure time 4h.; Method: OECD Test Guideline 404

Eye irritation: Corrosive: Species rabbit; Method: OECD Test Guideline 405

Sensitisation: Sensitising; Species guinea pig; Buehler test; Method: OECD Test Guideline 406

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## SECTION 12 Ecological information

**SECTION 12 Ecological information (....)**

## 12.1 Toxicity

- No information available

## 12.2 Persistence and degradability

- No information available

## 12.3 Bioaccumulation Potential

- No information available

## 12.4 Mobility in soil

- No information available

## 12.5 Results of PBT and vPvB assessment

- This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
- This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## 12.6 Other Adverse Effects

- No information available
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**SECTION 13 Disposal considerations**

## 13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
  - 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.: Not applicable

## 14.2 UN Proper Shipping Name

- Proper Shipping Name: Not applicable

## 14.3 Transport hazard class(es)

- Hazard Class: Not applicable

## 14.4 Packing group

- Packing Group: Not applicable

## 14.5 Environmental hazards

- Not a marine pollutant

## 14.6 Special precautions for user

- No special precautions are required for this product

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

- Not applicable
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**SECTION 15 Regulatory information**

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

- This Safety Data Sheet is provided in compliance with Article 10(2.1) of Directive 1994/45/EC

## 15.2 Chemical Safety Assessment

- A chemical safety assessment (CSA) for this product has not yet been completed
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**SECTION 16 Other information**

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H272: May intensify fire; oxidiser. H301: Toxic if swallowed. H311: Toxic in contact with skin. H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction. H331: Toxic if inhaled. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

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.