Summary of product characteristics for a biocidal product

Product name: WTP C32

Product type(s): PT11 - Preservatives for liquid-cooling and processing systems (Preservatives)

PT11 - Preservatives for liquid-cooling and processing systems (Preservatives)

Authorisation number: IE/BPA 70641

R4BP 3 asset reference number: IE-0020537-0000

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Administrative information

1.1. Trade names of the product

WTP C32 Microcare C17

1.2. Authorisation holder

Name and address of the authorisation holder	Name	Water Treatment Products Limited
	Address	Unit 1 Gilchrist Thomas Industrial Estate Blaenavon NP4 9RL Pontypool United Kingdom
Authorisation number	IE/BPA 70641	
R4BP 3 asset reference number	IE-0020537-0000	
Date of the authorisation	04/04/2019	
Expiry date of the authorisation	03/04/2029	

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	Water Treatment Products Limited
Address of the manufacturer	Unit 1, Gilchrist Thomas Industrial Estate, Blaenavon NP4 9RL Pontypool, Torfaen United Kingdom
Location of manufacturing sites	Unit 1, Gilchrist Thomas Industrial Estate, Blaenavon NP4 9RL Pontypool, Torfaen United Kingdom

1.4. Manufacturer(s) of the active substance(s)

Active substance	1373 - Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)
Name of the manufacturer	Dalian Bio-Chem Co., Ltd.
Address of the manufacturer	11F Anda Business Mansion 32 Wuwu Road Hingham District, Dalian China
Location of manufacturing sites	11F Anda Business Mansion 32 Wuwu Road Hingham District, Dalian China

2. Product composition and formulation

2.1. Qualitative and quantitative information on the composition of the biocidal product

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)		Active Substance	55965-84-9		1,5

2.2. Type of formulation

SL - Soluble concentrate

3. Hazard and precautionary statements

Hazard statements	Causes severe skin burns and eye damage. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.
Precautionary statements	Do not breathe vapours. Avoid breathing spray. Wash hands thoroughly after handling. Avoid release to the environment.

Wear protective gloves.

Wear protective clothing.

Wear eye protection.

Wear face protection.

IF SWALLOWED:Rinse mouth.Do NOT induce vomiting.

IF ON SKIN:Wash with plenty of water.

IF ON SKIN (or hair):Take off immediately all contaminated clothing.Rinse skin with water.

IF INHALED:Remove person to fresh air and keep comfortable for breathing.

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

Immediately call a poison centre/doctor.

If skin irritation or rash occurs:Get medical advice.

Take off contaminated clothing.And wash it before reuse.

Wash contaminated clothing before reuse.

Collect spillage.

Store locked up.

Dispose of container to licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

4. Authorised use(s)

4.1 Use description

Use 1 - Open cooling systems (i.e. evaporative cooling towers)

Product type	PT11 - Preservatives for liquid-cooling and processing systems (Preservatives)
Where relevant, an exact description of the authorised use	Use as an industrial biocide for the preservation of water and other liquids in open cooling systems (i.e. evaporative cooling towers) by the control of harmful bacteria.
Target organism(s) (including development stage)	Scientific name: Legionella pneumophila Common name: Bacteria, aerobic Gram-negative Development stage: Scientific name: Enterobacter cloacae Common name: Bacteria, aerobic Gram-negative Development stage: Scientific name: Pseudomonas aeruginosa Common name: Bacteria, aerobic Gram-negative Development stage: Scientific name: Klebsiella pneumoniae

Common name: Bacteria, aerobic Gram-negative
Development stage:

Scientific name: Pseudomonas fluorescens
Common name: Bacteria, aerobic Gram-negative
Development stage:

Scientific name: Serratia marcescens
Common name: Bacteria, aerobic Gram-negative
Development stage:

Scientific name: Enterobacter aerogenes
Common name: Bacteria, aerobic Gram-negative
Development stage:

Scientific name: Escherichia coli
Common name: Bacteria, aerobic Gram-negative
Development stage:

Scientific name: Serratia plymuthica
Common name: Bacteria, aerobic Gram-negative
Development stage:

Scientific name: Pseudomonas stutzeri
Common name: Bacteria, aerobic Gram-negative
Development stage:

Scientific name: Desulfovibrio desulfuricans
Common name: Bacteria, anaerobic Gram-negative
Development stage:

Scientific name: Shewanella oneidensis
Common name: Bacteria, anaerobic Gram-negative
Development stage:

Scientific name: Desulfovibrio vulgaris
Common name: Bacteria, anaerobic Gram-negative
Development stage:

Scientific name: Shewanella putrefaciens
Common name: Bacteria, anaerobic Gram-negative
Development stage:

Field(s) of use

Indoor

Outdoor

Cooling systems to be treated may be located indoors or outdoors.

Application method(s)

Manual dosing -
Product to be decanted from the drum or IBC using a drum tap into a measuring jug or cylinder and poured into the system.

Automatic dosing -
Product is to be dosed directly from the drum or IBC, and decanted into either on-site day tanks or chemical dosing pots and pumped into the system.

Application rate(s) and frequencies

Initial dose: 500mL of product per m^3 of water. Typical dose for a clean system: 200mL of product per m^3 of water. Contaminated system: 500-2000mL of product per m^3 of water. - -
Typical dose for a clean system: 3 hour contact time.

Contaminated system: 24 hour contact time.

Dose weekly as a minimum (adjust dose based on dip slide results).

	Initial dose: 500mL of product per m³ of water. Typical dose for a clean system: 200mL of product per m³ of water. Contaminated system: 500-2000mL of product per m³ of water. - - Typical dose for a clean system: 3 hour contact time. Contaminated system: 24 hour contact time. Dose weekly as a minimum (adjust dose based on dip slide results).
Category(ies) of users	Industrial
Pack sizes and packaging material	Packaging type: Jerry can. Pack sizes: 5, 10, 12.5, 20 and 25 L. Material of packaging: Plastic: HDPE. 5 L jerry cans may be packaged into a 4G box. Between 1 and 4 jerry cans may be included in a single box. Type and material of closure: HDPE screw cap. Packaging type: Drum. Pack sizes: 210 L. Material of packaging: Plastic: HDPE. Type and material of closure: Moulded bung composed of polypropylene co-polymer. Packaging type: IBC. Pack sizes: 1000 L. Material of packaging: Plastic: HDPE. Type and material of closure: HDPE screw cap.

4.1.1 Use-specific instructions for use

Refer to general directions for use.

4.1.2 Use-specific risk mitigation measures

Use in open cooling systems/evaporative cooling towers: For use in systems with a volume of ≤ 300 m3 and where emissions are directed via an STP.

4.1.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Refer to general directions for use.

4.1.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

Refer to general directions for use.

4.1.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Refer to general directions for use.

4.2 Use description

Use 2 - Processing systems (both open and closed re-circulating type systems)

Product type	PT11 - Preservatives for liquid-cooling and processing systems (Preservatives)
Where relevant, an exact description of the authorised use	For use as an industrial biocide for the preservation of water and other liquids used in processing systems (both open and closed recirculating type systems) by the control of harmful bacteria.
Target organism(s) (including development stage)	Scientific name: Legionella pneumophila Common name: Bacteria, aerobic Gram-negative Development stage: Scientific name: Enterobacter cloacae Common name: Bacteria, aerobic Gram-negative Development stage: Scientific name: Pseudomonas aeruginosa Common name: Bacteria, aerobic Gram-negative Development stage: Scientific name: Klebsiella pneumoniae Common name: Bacteria, aerobic Gram-negative Development stage: Scientific name: Pseudomonas fluorescens Common name: Bacteria, aerobic Gram-negative Development stage:

	Scientific name: Serratia marcescens Common name: Bacteria, aerobic Gram-negative Development stage: Scientific name: Enterobacter aerogenes Common name: Bacteria, aerobic Gram-negative Development stage: Scientific name: Escherichia coli Common name: Bacteria, aerobic Gram-negative Development stage: Scientific name: Serratia plymuthica Common name: Bacteria, aerobic Gram-negative Development stage: Scientific name: Pseudomonas stutzeri Common name: Bacteria, aerobic Gram-negative Development stage: Scientific name: Desulfovibrio desulfuricans Common name: Bacteria, anaerobic Gram-negative Development stage: Scientific name: Shewanella oneidensis Common name: Bacteria, anaerobic Gram-negative Development stage: Scientific name: Desulfovibrio vulgaris Common name: Bacteria, anaerobic Gram-negative Development stage: Scientific name: Shewanella putrefaciens Common name: Bacteria, anaerobic Gram-negative Development stage:
Field(s) of use	Indoor Outdoor Cooling systems to be treated may be located indoors or outdoors.
Application method(s)	Manual dosing - Product to be decanted from the drum or IBC using a drum tap into a measuring jug or cylinder and poured into the system. Automatic dosing - Product is to be dosed directly from the drum or IBC, and decanted into either on-site day tanks or chemical dosing pots and pumped into the system.
Application rate(s) and frequencies	Initial dose: 500mL of product per m^3 of water. Typical dose for a clean system: 200mL of product per m^3 of water. Contaminated system: 500-2000mL of product per m^3 of water. - - Typical dose for a clean system: 1 hour contact time. Contaminated system: 24 hour contact time. Dose quarterly (adjust dose based on dip slide results). Initial dose: 500mL of product per m^3 of water. Typical dose for a clean system: 200mL of product per m^3 of water. Contaminated system: 500-2000mL of product per m^3 of water. - - Typical dose for a clean system: 1 hour contact time. Contaminated system: 24 hour contact time.

	Dose quarterly (adjust dose based on dip slide results).
Category(ies) of users	Professional
Pack sizes and packaging material	Packaging type: Jerry can. Pack sizes: 5, 10, 12.5, 20 and 25 L. Material of packaging: Plastic: HDPE. 5 L jerry cans may be packaged into a 4G box. Between 1 and 4 jerry cans may be included in a single box. Type and material of closure: HDPE screw cap. Packaging type: Drum. Pack sizes: 210 L. Material of packaging: Plastic: HDPE. Type and material of closure: Moulded bung composed of polypropylene co-polymer. Packaging type: IBC. Pack sizes: 1000 L. Material of packaging: Plastic: HDPE. Type and material of closure: HDPE screw cap.

4.2.1 Use-specific instructions for use

Refer to general directions for use.

4.2.2 Use-specific risk mitigation measures

Refer to general directions for use.

4.2.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Refer to general directions for use.

4.2.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

Refer to general directions for use.

4.2.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Refer to general directions for use.

5. General directions for use

5.1. Instructions for use

Restricted to industrial users.
For use as an industrial biocide for the preservation of water and other liquids used in cooling and processing systems by the control of harmful organisms.
This product is intended to be fed intermittently into the system either manually or automatically.
Manual dosing: Product to be decanted from the drum or IBC using a drum tap into a measuring jug or cylinder and poured into the system.
Automatic dosing: Product is to be dosed directly from the drum or IBC, and decanted into either on-site day tanks or chemical dosing pots and pumped into the system.

Test with dip slides to ensure TVC's are in an acceptable range (10exp4).

5.2. Risk mitigation measures

For industrial use only.

Wear protective chemical resistant gloves, coveralls and face protection when handling the concentrate

Wear protective chemical resistant gloves and coveralls when handling contaminated surfaces (glove material to be specified by the authorisation holder within the product information)

5.3. Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Particulars of likely direct or indirect effects

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

Eye contact: There may be irritation and redness.

Ingestion: Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Nausea and stomach pain may occur. There may be vomiting. Drowsiness or mental confusion may occur.

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

First Aid Instructions

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Eye bathing equipment should be available on the premises. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

Emergency Measures to Protect the Environment

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Methods and material for containment and cleaning up: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

5.4. Instructions for safe disposal of the product and its packaging

Disposal should be carried out by licenced contractors. Transfer to a suitable container and arrange for collection by specialised disposal company.
Release of waste water from the facilities shall be directed to a sewage treatment plant.
Contaminated containers must be disposed of at an approved waste facility.

5.5. Conditions of storage and shelf-life of the product under normal conditions of storage

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.
Shelf life: Two years.

6. Other information

Lanxess Deutschland GmbH supplies the active substance manufactured by Dalian Bio-Chem co., Limited to the EU market and has provided the Letter of Access to the associated data package (see IUCLID Section 13).

The active substance C(M)IT/MIT is manufactured as a 14% technical concentrate in water (PREVENTOL IT 14), with stabilisers (magnesium nitrate and magnesium chloride).

In order to minimise the potential for resistance arising in PT11 systems treated with WTP C32, the product may be used in rotation with biocides containing a different active substance, either oxidising or non-oxidising.