

Summary of product characteristics for a biocidal product

Product name: PoolSan cs

Product type(s): PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)
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Authorisation number: UK-2019-1177

R4BP 3 asset reference number: UK-0013172-0000

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Administrative information

1.1. Trade names of the product

PoolSan cs

1.2. Authorisation holder

Name and address of the authorisation holder	Name	ACN Chemicals UK Ltd
	Address	27 Gloucester Place Second Floor W1U 8HU London United Kingdom
Authorisation number	UK-2019-1177	
R4BP 3 asset reference number	UK-0013172-0000	
Date of the authorisation	14/02/2019	
Expiry date of the authorisation	14/02/2029	

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	ACN Chemicals UK Ltd.
Address of the manufacturer	27 Gloucester Place, 2nd Floor W1U 8HU London United Kingdom
Location of manufacturing sites	COREPA / Derichebourg Groupe, ZI, Route de la Hogue, 14700 Falaise France

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

Active substance	1276 - Copper sulphate pentahydrate
Name of the manufacturer	Manica S.P.A.
Address of the manufacturer	Via all' Adige 4 38068 Rovereto (Trento) Italy
Location of manufacturing sites	Manica S.P.A., Via Adige, 28, 38068 Rovereto (Trento) Italy

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 (%)
Copper sulphate pentahydrate		Active Substance	7758-99-8	231-847-6	16
nitric acid			7697-37-2	231-714-2	3.92
Zinc			7440-66-6	231-175-3	2.1
Hydrochloric acid			7647-01-0	231-595-7	3.65

2.2. Type of formulation

SL - Soluble concentrate

3. Hazard and precautionary statements

Hazard statements	<p>Causes severe skin burns and eye damage.</p> <p>Very toxic to aquatic life with long lasting effects.</p> <p>May be corrosive to metals.</p>
Precautionary statements	<p>If medical advice is needed, have product container or label at hand.</p> <p>Keep out of reach of children.</p> <p>Read label before use.</p>

Keep only in original container.

Do not breathe fume.

Wash , thoroughly after handling.

Wear protective gloves.

Wear protective clothing.

Wear eye protection.

Wear face protection.

IF SWALLOWED:Rinse mouth.Do NOT induce vomiting.

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

Wash contaminated clothing before reuse.

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

Immediately call a doctor.

Specific treatment (see ... on this label).

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

Absorb spillage to prevent material damage.

Collect spillage.

Store locked up.

Dispose of contents to a 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 - Non-professional use

Product type

PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)

Where relevant, an exact description of the authorised use

To prevent the growth of green algae in:

- outdoor above ground small pools (up to 14,000 litres).
- permanently installed private pools (NOT RELEVANT IN UK)

Target organism(s) (including development stage)

Green algae-Green algae-

Field(s) of use

Indoor

Outdoor

- outdoor above ground small pools (up to 14,000 litres).
- permanently installed private pools (NOT RELEVANT IN UK)

Application method(s)

Pouring -

Use is limited to application via the use of squeeze to fill 'Bettix' type containers in which no decanting into a measuring container is required, and which have a child resistant closure.

Application rate(s) and frequencies

Apply product to achieve a target concentration of 0.7mg/l of copper (see below for details) - See below. -
Start with an initial dose in the swimming pool as shown in the table below:

Pool size (litres)	Initial dose of PoolSan cs
1,000	18 ml
2,000	35 ml
5,000	88 ml
10,000	175 ml
20,000	350 ml
40,000	700 ml
60,000	1.05 litres
90,000	1.575 litres
120,000	2.1 litres
150,000	2.625 litres
300,000	5 litres

Test the water daily with a test kit or test strips to measure the level of copper and adjust the copper level accordingly if needed. Apply product to achieve a target concentration of 0.7mg/l of copper. Do not overdose.

The amount of PoolSan cs needed to raise the level of copper by 0.1 mg/L is given in the table below:

Pool size (litres)	Amount of PoolSan cs needed to raise level of copper by 0.1 mg/L
1,000	2.5 ml
2,000	5.0 ml
5,000	12.5 ml
10,000	25 ml
20,000	50 ml
40,000	100 ml
60,000	150 ml
90,000	225 ml
120,000	300 ml
150,000	375 ml
300,000	750 ml

Do not add the product to water when bathers are in the pool.

Keep the pH of the pool between 7.2 – 7.4 and Total Alkalinity (TA) above 80 ppm.

PoolSan cs should be used alongside an oxidiser which is legally placed on the market.

Category(ies) of users

General public (non-professional)

Pack sizes and packaging material

'Bettix' bottle (with integrated measuring/dosing device and child resistant closure) :
Bottle, Plastic: HDPE , 250 ml
Bottle, Plastic: HDPE , 500 ml
Bottle, Plastic: HDPE, 1000 ml

Use is limited to application via the use of squeeze to fill 'Bettix' type containers in which no decanting into a measuring container is required, and which have a child resistant closure.

4.1.1 Use-specific instructions for use

The target operating concentration is 0.7 mg/L copper.

Start with an initial dose in the swimming pool as shown in the table below:

Pool size (litres)	Initial dose of PoolSan cs
1,000	18 ml
2,000	35 ml
5,000	88 ml
10,000	175 ml
20,000	350 ml
40,000	700 ml
60,000	1.05 litres
90,000	1.575 litres
120,000	2.1 litres
150,000	2.625 litres
300,000	5 litres

Test the water daily with a test kit or test strips to measure the level of copper and adjust the copper level accordingly if needed. Do not overdose.

The amount of PoolSan cs needed to raise the level of copper by 0.1 mg/L is given in the table below:

Pool size (litres)	Amount of PoolSan cs needed to raise level of copper by 0.1 mg/L
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1,000	2.5 ml
2,000	5.0 ml
5,000	12.5 ml
10,000	25 ml
20,000	50 ml
40,000	100 ml
60,000	150 ml
90,000	225 ml
120,000	300 ml
150,000	375 ml
300,000	750 ml

Do not add the product to water when bathers are in the pool.

Keep the pH of the pool between 7.2 – 7.4 and Total Alkalinity (TA) above 80 ppm.

PoolSan cs should be used alongside an oxidiser which is legally placed on the market.

4.1.2 Use-specific risk mitigation measures

Waste water from freestanding pools must not reach local surface waters / water bodies. Do not empty into rainwater gullies or ditches. Water should be released to ground under/around the pool and allowed to soak away into soil.

NOT RELEVANT IN UK: This product must only be applied to permanent, below ground, private pools where the plumbing system is permanently modified so it does not release any pool water to the local STP or local surface waters / water bodies. Any emptying of the pool and subsequent removal of waste water for disposal must be carried out by a licensed contractor (water / effluent treatment company / tanker service) complying with national waste management regulations.

This material and its container must be disposed of in a safe way.

WASH HANDS AND EXPOSED SKIN before meals and after use.

KEEP IN A SAFE PLACE

Provide good ventilation in process area to prevent formation of vapour.

Do not breathe fumes

Wash contaminated clothing before reuse.

Avoid contact with skin and eyes

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

see "Directions of use"

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

see "Directions of use"

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

see "Directions of use"

4.2 Use description

Use 2 - Professional use

Product type

PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)

Where relevant, an exact description of the authorised use

To prevent the growth of green algae in:

- outdoor above ground small pools (up to 14,000 litres).
- permanently installed private pools (NOT RELEVANT IN UK)
- large public swimming pools

Target organism(s) (including development stage)

Green algae-Green algae-

Field(s) of use

Indoor

Outdoor

- outdoor above ground small pools (up to 14,000 litres).
- permanently installed private pools (NOT RELEVANT IN UK)
- large public swimming pools

Application method(s)

Pouring -
Administer the required amount of Poolsan by pouring or by using an automated dosing system (see below for details).

Application rate(s) and frequencies

Apply product to achieve a target concentration of 0.7mg/l of copper - See below - Start with an initial dose in the swimming pool as shown in the table below:

Pool size (litres)	Initial dose of PoolSan cs
1,000	18 ml
2,000	35 ml
5,000	88 ml
10,000	175 ml
20,000	350 ml
40,000	700 ml
60,000	1.05 litres
90,000	1.575 litres
120,000	2.1 litres
150,000	2.625 litres
300,000	5 litres

Test the water daily with a test kit or test strips to measure the level of copper and adjust the copper level accordingly if needed. The target operating concentration is 0.7 mg/L copper. Do not overdose.

The amount of PoolSan cs needed to raise the level of copper by 0.1 mg/L is given in the table below:

Pool size	Amount of PoolSan cs needed to raise
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(litres)	level of copper by 0.1 mg/L
1,000	2.5 ml
2,000	5.0 ml
5,000	12.5 ml
10,000	25 ml
20,000	50 ml
40,000	100 ml
60,000	150 ml
90,000	225 ml
120,000	300 ml
150,000	375 ml
300,000	750 ml

Do not add the product to water when bathers are in the pool.

Keep the pH of the pool between 7.2 – 7.4 and Total Alkalinity (TA) above 80 ppm. PoolSan cs should be used alongside an oxidiser which has been legally placed on the market.

Category(ies) of users

Trained professional
Professional

Pack sizes and packaging material

Plastic HDPE bottles: 5, 10 and 25 litre.

4.2.1 Use-specific instructions for use

The target operating concentration is 0.7 mg/L copper.

Start with an initial dose in the swimming pool as shown in the table below:

Pool size (litres)	Initial dose of PoolSan cs
1,000	18 ml
2,000	35 ml
5,000	88 ml
10,000	175 ml
20,000	350 ml
40,000	700 ml
60,000	1.05 litres
90,000	1.575 litres
120,000	2.1 litres
150,000	2.625 litres
300,000	5 litres

Test the water daily with a test kit or test strips to measure the level of copper and adjust the copper level accordingly if needed. The target operating concentration is 0.7 mg/L copper. Do not overdose.

The amount of PoolSan cs needed to raise the level of copper by 0.1 mg/L is given in the table below:

Pool size (litres)	Amount of PoolSan cs needed to raise level of copper by 0.1 mg/L
1,000	2.5 ml
2,000	5.0 ml
5,000	12.5 ml
10,000	25 ml
20,000	50 ml
40,000	100 ml

60,000	150 ml
90,000	225 ml
120,000	300 ml
150,000	375 ml
300,000	750 ml

Do not add the product to water when bathers are in the pool.

Keep the pH of the pool between 7.2 – 7.4 and Total Alkalinity (TA) above 80 ppm.
PoolSan cs should be used alongside an oxidiser which has been legally placed on the market.

4.2.2 Use-specific risk mitigation measures

Waste water from freestanding pools must not reach local surface waters / water bodies. Do not empty into rainwater gullies or ditches. Water should be released to ground under/around the pool and allowed to soak away into soil.

NOT RELEVANT IN UK: This product must only be applied to permanent, below ground, private pools where the plumbing system is permanently modified so it does not release any pool water to the local STP or local surface waters / water bodies. Any emptying of the pool and subsequent removal of waste water for disposal must be carried out by a licensed contractor (water / effluent treatment company / tanker service) complying with national waste management regulations.

UK only: The COSHH (Control of Substances Hazardous to Health) Regulations 2002 (as amended) apply to the use of this product at work.

Wear protective chemical resistant gloves during product handling phase (glove material to be specified by the authorisation holder within the product information).

The use of eye protection during handling of the product is mandatory.

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

See "Directions for use"

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

See "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

See "Directions for use"

5. General directions for use

5.1. Instructions for use

See Authorised Uses

5.2. Risk mitigation measures

See Authorised Uses

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

First aid measures:

- Relocate the individual from the exposure source and remove any contaminated/spattered clothing articles.
- Eye exposure; **ALWAYS** check for and remove contact lenses, wash eyes with plenty of water with eye lids open for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
- Skin contact (or hair); wash affected area with plenty of water and soap, **NO** scrubbing.
- In case mouth contact or ingestion; Do **NOT** induce vomiting, if the individual is conscious, able to swallow saliva without coughing and ingestion occurred within the previous hour proceed to wash mouth with plenty of water.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing
- **NEVER** administer liquids/solids orally to an impaired or unconscious individual; place individual in left sideways position with the head lowered and the knees bent.
- Keep the individual calm and at rest, conserve body temperature and control breathing. If necessary check for pulse and initiate artificial respiration.
 - If symptoms persist or worsen get medical advice/attention, take packaging or label whenever possible.
 - Do not leave the affected individual unattended.

Likely direct or indirect adverse effects:

- Severe chemical burns and/or corrosion of the eyes, mucosae, respiratory and digestive tract with the risk of perforation and intense pain. (The absence of visual oral burns does not exclude esophageal burns).
- If aspiration and/or ingestion occurs this may induce chemical pneumonia and metabolic acidosis.

When asking for medical advice keep packaging or label at hand and contact your local poison control centre. UK medical professionals should contact the National Poisons Information Service (www.npis.org) for further advice.

GENERAL

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.

EMERGENCY MEASURES TO PROTECT THE ENVIRONMENT

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters. Avoid release to the environment.

Collect spillage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

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

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

Avoid release to the environment.

Contact supplier if guidance is required for waste treatment methods.

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

Keep only in the original container.

Store in a cool, dry, well ventilated secure place away from oxidizing and reducing agents; petrol, oil, solvents and organic materials; ammonia, fertiliser and nitrogen compounds; strong acids and alkalis; direct sunlight, heat and ignition sources.

Keep container closed when not in use.

Shelf life 2 years

6. Other information

The product is within scope of Regulation (EU) No 98/2013 on the marketing and use of explosives precursors. Therefore concerned Member States should label the product appropriately. In the UK this means that the following phrase must appear on the product label:

Acquisition, possession or use by the general public is restricted

According to Regulation (EC) No 1272/2008 Annex II, 3.2 the packaging of substances or mixtures supplied to the general public has to be fitted with a tactile warning.

The product is intended to be used alongside an oxidiser that should be legally placed on the market e.g. PoolSan Regenerator.

Resistance should be monitored on a continuous basis. Should the authorisation holder be made aware of any reports of resistance/tolerance to the active substance this should be reported to an appropriate body.

Please note that P280 only applies to professional users