

Cooler Algae Inhibitor Super Concentrate

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product name **Cooler Algae Inhibitor Super Concentrate**
Synonym **Protectus Ultimate Super Concentrate**
Part no. **Disinfectant PU-SCON**
UFI: **3300-D0AU-S00F-2U8X**

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

For industrial and professional use as a disinfectant after dilution on hard surfaces, equipment and furniture in private, public and industrial areas.

1.3 Details of the supplier of the safety data sheet

Company: Chemisphere UK Ltd
4 Richmond Road, Trafford Park
Manchester, M17 1RE. United Kingdom
Tel: +44 (0) 1536 518 062 F: +44 (0) 1536 411 210
E-mail: safetydata@chemisphereuk.co.uk Web: www.chemisphereuk.co.uk

1.4 Emergency telephone number

Supplier: +44 (0) 1327 313100 (not 24hr)
NHS medical advice: 111
UK National Poisons Information Service.
E-mail: npis.birmingham@nhs.net;
Tel: +44 (0)344 892 0111

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2; H315
Eye Dam. 1; H318
Aquatic Acute 1; H400
Aquatic Chronic 1; H410

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal Word : Danger

Hazard statements

H315 : Causes skin irritation.
H318 : Causes serious eye damage.
H410 : Very toxic to aquatic life with long lasting effects.

Supplemental hazard statements

EUH208 : Contains PolyHexaMethylene Biguanide. May produce an allergic reaction.

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Precautionary statements

Prevention:

- P280 : Wear protective gloves/eye protection/face protection.
P273 : Avoid release to the environment.

General:

- P103 : Read label before use.

Response:

- P302 + P352 + P332 + P313 : IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
P305 + P351 + P338 + P310 : 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 CENTER or doctor/physician.

Disposal:

- P501 : Dispose of contents/container in accordance with local regulations.

2.3 Other hazards

None known.

SECTION 3: Composition and Information on Ingredients

3.2 Mixtures

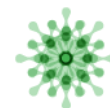
Substance	CAS No. EC No. REACH No.	Classification	Range
PHMB (PolyHexaMethylene Biguanide)	1802181-67-4 (32289-58-0) Polymer NA	Acute Tox. 4 (Oral); H302 Acute Tox. 2 (Inhal.); H330 Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT SE 3; H335 Aquatic Acute 1; H400 (M=10) Aquatic Chronic 1; H410 (M=10)	< 4 %
Didecyldimethylammonium chloride	7173-51-5 230-525-2 01-2119945987-15	Acute Tox. 3 (Oral); H301 Skin Corr. 1B; H314 Aquatic Acute 1 (M=10); H400 Aquatic Chronic 2; H411	< 2 %
Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1 270-325-2	Acute Tox. 4 (Oral); H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 (M=10) Aquatic Chronic 1; H411	< 2 %
Decylglucoside	54549-25-6 259-218-1 01-2119489418-23	Eye Dam. 1; H318 Skin Irrit. 2; H315	< 3 %
C8 Alkyl glucoside	- 414-420-0 01-0000016147-72	Eye Dam. 1; H318	< 2 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First Aid Measures

4.1. Description of first aid measures

- Eye contact : Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do.



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	Continue rinsing for at least 20 minutes. Get immediate medical care.
Skin contact	Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water thoroughly. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before re-use.
Inhalation	Exposure via inhalation is not anticipated. Move to fresh air and keep warm. Seek medical attention if feel unwell.
Ingestion	Rinse mouth with plenty of water. Do NOT induce vomiting. If you feel unwell or concerned, get medical advice/attention.

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

Causes severe damage to eyes: burning feeling, redness, pain.

Causes skin irritation: itching, redness. Contains PolyHexaMethylene biguanide. May produce an allergic reaction.

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

No specific recommendations.

SECTION 5: Fire Fighting Measures

5.1. Extinguishing media

No special requirements, as appropriate for the fire.

5.2. Special hazards arising from the substance or mixture

The product is non-combustible as it is water-based with non-flammable components. No special hazards.

5.3. Advice for firefighters

Contaminated fire extinguishing water must not be discharged into drains.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

This product is classified as very toxic to aquatic life with long lasting effects. Keep away from drains, surface water and soil.

6.3. Methods and material for containment and cleaning up

Contain spillage, then absorb with liquid-binding material (e.g. sand, diatomite, acid binders, universal sawdust) and place in container for disposal according to local/national regulations.

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Wash hands thoroughly after handling (P264). Take off contaminated clothing and wash before reuse (P362). Use in accordance with product label and ensure correct dilution as directed before use.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Protect from extreme temperatures and direct sunlight. Do not freeze.

7.3. Specific end use(s)

To be used as a disinfectant at 1:30 dilution.

SECTION 8: Exposure Controls/ Personal Protection

8.1. Control parameters

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Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas. Facilities to flush eyes immediately must be available when handling this product.

Personal protective equipment:

Eye protection	Use safety glasses with side shields or goggles under EN166 standard.
Hand protection	Use rubber/nitrile/neoprene/PVC protective gloves under EN374 standard. When prolonged or frequently repeated contact may occur, gloves with a breakthrough time greater than 240 minutes are recommended. When only brief contact is expected - breakthrough time greater than 60 minutes is recommended.
Skin and body protection	As necessary to prevent contact.
Respiratory protection	Use respirator with a vapour filter (EN 141) when performing operations involving potential exposure to vapour of the product.

Environmental exposure controls:

Prevent mixture from entering water courses.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

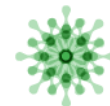
Physical state	liquid
Colour	amber
Odour	characteristic
Odour threshold	no data
pH	5 – 6 (at 20°C with pH indicator strip)
Melting point	< 0°C
Initial boiling point and range	ca. 100°C
Flash point	above 100°C
Evaporation rate	not volatile
Flammability (solid, gas)	not applicable since the product is liquid
Upper/lower flammability or explosive limits	not applicable since the product is not flammable/explosive
Vapour pressure	no data
Vapour density	no data
Density (g/cm ³)	1.0 – 1.1
Solubility in water	completely miscible
Partition coefficient: n-octanol/water	not applicable for mixtures
Auto-ignition temperature	not applicable since the product is not volatile
Decomposition temperature	no data
Viscosity	no data
Explosive properties	not explosive
Oxidising properties	not classified as oxidising

9.2. Other information

No data available.

SECTION 10: Stability and Reactivity

10.1. Reactivity



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Stable and is not expected to have a hazardous reaction.

10.2. Chemical stability

Stable under normal temperature. Store in a cool dry place.

10.3. Possibility of hazardous reactions

Stable under normal conditions.

10.4. Conditions to avoid

Avoid direct sunlight.

10.5. Incompatible materials

Strong oxidising agents.

Anionic materials.

10.6. Hazardous decomposition products

None under normal use.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity:

Oral	Contains ingredients classified as Acute Tox. 3 and Acute Tox. 4 (section 3). Mixture is not classified as Acute Tox. by the conventional method using information derived from supplier's SDS.
Dermal	Does not contain any ingredients classified as Acute Tox.
Inhalation	Contains an ingredient classified as Acute Tox. 2 (section 3). Mixture is not classified as Acute Tox. by the conventional method using information derived from supplier's SDS.
Skin corrosion/irritation	Mixture is classified as Skin Irrit. 2. See section 2.
Serious eye damage/irritation	Mixture is classified as Eye Dam. 1. See section 2.
Respiratory or skin sensitisation	Contains PolyHexaMethylene biguanide. May cause sensitisation by skin contact.
Germ cell mutagenicity	Components do not exhibit mutagenic properties in reported in-vitro studies.
Carcinogenicity	Does not contain any ingredients classified as Carc.
Reproductive toxicity	Components do not exhibit reproductive toxicity effects in reported studies.
STOT SE	Contains an ingredient classified as STOT SE 3 (section 3). Mixture is not classified as STOT SE by the conventional method using information derived from supplier's SDS.
STOT RE	Does not contain any ingredients classified as STOT-RE.
Aspiration hazard	Does not contain any ingredients classified as Asp. Tox.

Routes of exposure/ symptoms

Eye contact	Serious damage to eye.
Skin contact	Skin irritation. May produce an allergic reaction in sensitive individuals.
Inhalation	Not likely, due to the form of the product.
Ingestion	Will cause irritation to gastro-intestinal tract.

SECTION 12: Ecological Information

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12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substance considered to be PBT (persistent, bioaccumulating and toxic) or vPvB (very persistent and very bioaccumulating).

12.6. Other adverse effects

No data available.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Product	This product is hazardous to the environment and therefore must be disposed of accordingly. Must not be disposed of together with household waste. Dispose of in accordance with local/national regulations.
Contaminated packaging	Ensure used packaging is purged and fully cleaned before disposal and dispose of washings following assessment. Hazard warning labels should be removed from the container only after it has been properly emptied. Recycle containers wherever possible.

SECTION 14: Transport Information

ADR / RID / ADN / IATA

14.1. UN number	: 3082
14.2. UN proper shipping name	: Environmentally hazardous substance, liquid, N.O.S. (PolyHexaMethylene biguanide, Didecyldimethylammonium chloride)
14.3. Transport hazard class(es)	: 9
14.4. Packing group	: III
14.5. Environmental hazards	: yes

IMDG

14.1. UN number	: 3082
14.2. UN proper shipping name	: Environmentally hazardous substance, liquid, N.O.S. (PolyHexaMethylene biguanide, Didecyldimethylammonium chloride)
14.3. Transport hazard class(es)	: 9
14.4. Packing group	: III
14.5. Environmental hazards	: Marine pollutant: yes

14.6. Special precautions for user

When transported in single or combination packagings containing a net quantity per single or inner packaging of **5 L or less**, is not subject to ADR (see ADR Special Provision 375) provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 to 4.1.1.8. Not subject to IATA (see IATA Special Provision A197) provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Regulation (EU) No. 2015/830. Label elements according to Regulation (EC) No. 1272/2008.

15.2. Chemical safety assessment

Not required.

SECTION 16: Other Information

The following ingredients were renamed in the Section 3.2:

Polymer of N-cyanocyanamide/1,6-hexanediamine hydrochloride (CAS 1802181-67-4/32289-58-0) to Polyhexamethylene biguanide hydrochloride with a mean number-average molecular weight (Mn) of 1415 and a mean polydispersity (PDI) of 4.7 (PHMB (1415; 4.7))

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS 68424-85-1) to Alkyl (C12-16) dimethylbenzyl ammonium chloride.

The chemical nature and composition of the product remain the same.

Full text of H-Statements referred to under Section 3.

- H301: Toxic if swallowed.
- H302: Harmful if swallowed.
- H314: Causes severe skin burns and eye damage.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H330: Fatal if inhaled.
- H335: May cause respiratory irritation.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.
- H411: Toxic to aquatic life with long lasting effects.