

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

## CHAMPION ALGAECIDE

Version 3.0

Print Date 2018/02/21

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MSDS code: MAAA756

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : CHAMPION ALGAECIDE

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

Use of the Substance/Mixture : Biocidal product

Uses advised against : industrial use

#### 1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK Limited  
Alpha House, Lawnswood Business Park  
GB LS16 6QY Leeds

Telephone : +44 (0) 113 3879 200  
Telefax : +44 (0) 113 3879 280  
E-mail address : msds@brenntag.co.uk

#### 1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):  
+44 (0) 1865 407333 (N.C.E.C. Culham)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008


REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Acute toxicity (Dermal)	Category 4	---	H312
Acute toxicity (Oral)	Category 4	---	H302
Skin corrosion	Category 1B	---	H314
Acute aquatic toxicity	Category 1	---	H400

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

**CHAMPION ALGAECIDE****Most important adverse effects**

Human Health	:	See section 11 for toxicological information.
Physical and chemical hazards	:	See section 9/10 for physicochemical information.
Potential environmental effects	:	See section 12 for environmental information.

**2.2. Label elements****Labelling according to Regulation (EC) No 1272/2008**

Hazard symbols	:	
Signal word	:	Danger
Hazard statements	:	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life.
Precautionary statements		
Prevention	:	P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response	:	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Hazardous components which must be listed on the label:**

- quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides

**2.3. Other hazards**

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For Results of PBT and vPvB assessment see section 12.5.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
<b>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</b>			
CAS-No. : 68424-85-1	50	Acute Tox.4	H302
EC-No. : 270-325-2		Acute Tox.4	H312
		Skin Corr.1B	H314
		Aquatic Acute1	H400

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

General advice	: First aider needs to protect himself.
If inhaled	: Remove to fresh air. Get medical attention.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. Call a physician immediately. Failure to treat burns can prevent wounds from healing.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Consult a physician.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: Treat symptomatically. No further information available.
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**CHAMPION ALGAECIDE****SECTION 5: Firefighting measures****5.1. Extinguishing media**

- Suitable extinguishing media : Water spray, powder, Carbon dioxide (CO<sub>2</sub>), Foam
- Unsuitable extinguishing media : No information available.

**5.2. Special hazards arising from the substance or mixture**

- Specific hazards during firefighting : Under fire conditions: Nitrogen oxides (NO<sub>x</sub>), hydrogen chloride, Carbon oxides

**5.3. Advice for firefighters**

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
- Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Use personal protective equipment. For personal protection see section 8. Keep away unprotected persons.

**6.2. Environmental precautions**

- Environmental precautions : Do not flush into surface water or sanitary sewer system. Prevent spreading over a wide area (e.g. by containment or oil barriers). If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3. Methods and materials for containment and cleaning up**

- Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal. Flush away traces with water.
- Further information : Treat recovered material as described in the section "Disposal considerations".

**6.4. Reference to other sections**

- For personal protection see section 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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Advice on safe handling : Keep container tightly closed. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.

### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep only in the original container.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep in a well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)

Specific use(s) : No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Other Occupational Exposure Limit Values

(Additional) Information : Contains no substances with occupational exposure limit values.

### 8.2. Exposure controls

#### Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

#### Personal protective equipment

##### *Respiratory protection*

Advice : If ventilation is insufficient, suitable respiratory protection must be provided

##### *Hand protection*

Advice : The glove material has to be impermeable and resistant to the product / the substance / the preparation.

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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).

Protective gloves should be replaced at first signs of wear.

PVC gloves

Rubber gloves

*Eye protection*

Advice : Safety goggles

*Skin and body protection*

Advice : Wear personal protective equipment.

**Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system. Prevent spreading over a wide area (e.g. by containment or oil barriers).  
If the product contaminates rivers and lakes or drains inform respective authorities.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Form	: Liquid
Colour	: straw
Odour	: faint Almond
Odour Threshold	: no data available
pH	: 6 - 8 (50 g/l ; 20 °C)
Freezing point	: no data available
Boiling point/boiling range	: ca. 100 °C
Flash point	: no data available
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available

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Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Density	:	ca. 0.98 g/cm <sup>3</sup>
Water solubility	:	completely miscible
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Thermal decomposition	:	no data available
Viscosity, dynamic	:	ca. 100 mPa.s
Explosivity	:	no data available
Oxidizing properties	:	no data available

**9.2. Other information**

No further information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Advice : No information available.

**10.2. Chemical stability**

Advice : Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : No information available.

**10.4. Conditions to avoid**

Conditions to avoid : No information available.

**10.5. Incompatible materials**

Materials to avoid : Oxidizing agents

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

**SECTION 11: Toxicological information**

**CHAMPION ALGAECIDE****11.1. Information on toxicological effects****Data for the product****Acute toxicity****Oral**

LD50 : 240 - 400 mg/kg (Rat)

**Inhalation**

no data available

**Dermal**

LD50 : 800 - 1420 mg/kg (Rat)

**Irritation****Skin**

Result : Causes burns.

**Eyes**

Result : Causes burns.

**Sensitisation**

Result : No sensitizing effect known.

**CMR effects****CMR Properties**

Carcinogenicity : no data available

Mutagenicity : Not mutagenic in Ames Test

Reproductive toxicity : no data available

**Specific Target Organ Toxicity****Single exposure**

no data available

**Repeated exposure**

no data available

**Other toxic properties****Repeated dose toxicity**



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no data available

### Aspiration hazard

no data available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Data for the product

#### Acute toxicity

#### Fish

LC50 : 0.85 - 1.2 mg/l (96 h) (Toxicity to fish)

#### Toxicity to daphnia and other aquatic invertebrates

EC50 : 0.02 mg/l (Daphnia (water flea); 48 h) (Toxicity to daphnia)

#### algae

EC50 : 0.06 mg/l (algae; 96 h) (Toxicity to algae)

### 12.2. Persistence and degradability

#### Data for the product

#### Persistence and degradability

#### Biodegradability

Result : > 60 % (Closed Bottle test) Readily biodegradable.

### 12.3. Bioaccumulative potential

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

#### Data for the product

#### Chemical Oxygen Demand (COD)

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Result : 1130 mg/g

### Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- Product : Dispose of as hazardous waste in compliance with local and national regulations.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

## SECTION 14: Transport information

### 14.1. UN number

1760

### 14.2. UN proper shipping name

- ADR** : CORROSIVE LIQUID, N.O.S.  
**II** (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)
- RID** : CORROSIVE LIQUID, N.O.S.  
**II** (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)
- IMDG** : CORROSIVE LIQUID, N.O.S.  
**II** (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)

### 14.3. Transport hazard class(es)

- ADR-Class : 8  
 (Labels; Classification Code; Hazard identification No; Tunnel restriction code) 8; C9; 80; (E)
- RID-Class : 8  
 (Labels; Classification Code; Hazard identification No) 8; C9; 80
- IMDG-Class : 8  
 (Labels; EmS) 8; F-A, S-B

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### 14.4. Packaging group

ADR : II  
 RID : II  
 IMDG : II

### 14.5. Environmental hazards

Environmentally hazardous according to ADR : yes  
 Environmentally hazardous according to RID : yes  
 Marine Pollutant according to IMDG-Code : yes

### 14.6. Special precautions for user

Not applicable.

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

IMDG : Not applicable.

## SECTION 15: Regulatory information

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

### 15.2. Chemical safety assessment

no data available

## SECTION 16: Other information

### Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H400 Very toxic to aquatic life.

### Abbreviations and Acronyms

**BCF** bioconcentration factor  
**BOD** biochemical oxygen demand  
**CAS** Chemical Abstracts Service  
**CLP** Classification, Labelling and Packaging  
**CMR** carcinogenic, mutagenic or toxic to reproduction  
**COD** chemical oxygen demand  
**DNEL** derived no-effect level

## CHAMPION ALGAECIDE

<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>ELINCS</b>	European List of Notified Chemical Substances
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>LC50</b>	median lethal concentration
<b>LOAEC</b>	lowest observed adverse effect concentration
<b>LOAEL</b>	lowest observed adverse effect level
<b>LOEL</b>	lowest observed effect level
<b>NLP</b>	no-longer polymer
<b>NOAEC</b>	no observed adverse effect concentration
<b>NOAEL</b>	no observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	occupational exposure limit
<b>PBT</b>	persistent, bioaccumulative and toxic
<b>PNEC</b>	predicted no-effect concentration
<b>STOT</b>	specific target organ toxicity
<b>SVHC</b>	substance of very high concern
<b>UVCB</b>	substance of unknown or variable composition, complex reaction products or biological materials
<b>vPvB</b>	very persistent and very bioaccumulative

### Further information

Key literature references and sources for data : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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|| Indicates updated section.