

Safety Data Sheet dated 11/05/2020, version 2

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

1.1. Product identifier

Mixture identification:
Trade name: ALGAECIDE
\$GLWLRQDOLGHQWLILFDWLRQ

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

Recommended use: Remove foaming algae.

1.3. Details of the supplier of the safety data sheet

Supplier(Only representative): -
Supplier(Importer): Wilton Bradley Ltd.
Address: 8 Wentworth Road, Newton Abbot, TQ12 6TL
Contact person(E-mail): sales@wiltonbradley.co.uk
Telephone: +44 (0)1626 835400
Fax: +44 (0)1626 836656

1.4. Emergency telephone number

+44 (0)333 301 0644
Available outside office hours? YES NO

SECTION 2: Hazards identification





2.1. Classification of the substance or mixture

Physical and chemical hazards: the product is not classified for this hazard category.

Health hazards: the product causes severe skin burns and eye damage.

Environmental hazards: the product is very toxic to aquatic life with long lasting effects.

EC regulation criteria 1272/2008 (CLP)

-  Danger, Skin Corr. 1B, Causes severe skin burns and eye damage.
-  Danger, Eye Dam. 1, Causes serious eye damage.
-  Warning, Aquatic Acute 1, Very toxic to aquatic life.
-  Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:
No other hazards

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2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P280 Wear protective gloves and eye and face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or a doctor.

P391 Collect spillage.

Special Provisions:

None

Contains

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients


3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
5 - 7* %	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS: 68424-85-1 EC: 270-325-2	3.1/4/Oral Acute Tox. 4 H302 3.2/1B Skin Corr. 1B H314 3.3/1 Eye Dam. 1 H318 4.1/A1 Aquatic Acute 1 H400 M=10.

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 4.1/C1 Aquatic Chronic 1 H410
M=1.

* Note: higher value than the excluded range

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

Treat symptomatically. Consult a doctor.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

In case of fire, use a dry powder fire extinguisher to extinguish.

In case of fire, use a foam fire extinguisher to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products may develop as a result of thermal degradation:

CO_x, NO_x and chlorine compounds.

5.3. Advice for firefighters

Normal fire fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant (EN469), fireproof gloves (EN 659) and firefighter boots (HO A29 or A30).

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Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

FOR NON-EMERGENCY RESPONDERS

Alert personnel responsible coordinating the response to such emergencies. Move away from the area affected by the accident if you are not in possession of the personal protective equipment listed in Section 8.

FOR EMERGENCY RESPONDERS

Evacuate all personnel not suitably equipped to deal with the emergency.

Wear suitable protective clothing and equipment, as set out in Section 8 of the safety data sheet, to prevent any contamination of the skin, eyes and personal clothing. Stop leak if safe to do so. Do not permit workers to access the area affected by the accident until safe conditions have been restored. Ventilate the areas affected

6.2. Environmental precautions

Aspirate the spilled product, collecting it in a suitable container. Assess the compatibility of the container to use with the product by referring to section 10. Absorb any remaining product using inert absorbent material (e.g. vermiculite, diatomaceous earth, sand, zeolites, activated carbon, aluminium/silica gel).

Ensure the affected by the spill is ventilated adequately. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Wash with plenty of water.

Allow the material to absorb in the sand or in absorbent earth.

Collect and place in a container. Use as waste material. Clean the contaminated area.

Other information:

Clean the contaminated area. Local authorities must be notified in the event of out-of-control losses.

Respect local winding. See also section 13.

6.4. Reference to other sections

See also section 8 and 13

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:
Do not eat or drink while working.
Wash hands after use

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:
See subsection 10.5

Instructions as regards storage premises:
Cool and adequately ventilated.

7.3. Specific end use(s)

There are no specific end uses other than those identified in Section 1.2 of this safety data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The product does not contain substances for which there are EU workplace exposure limits (OELs) that require declaration in this Section.

DNEL Exposure Limit Values
N.A.

PNEC Exposure Limit Values
N.A.

8.2. Exposure controls

Eye protection:
Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:
No special precaution must be adopted for normal use.

Protection for hands:
Gloves EN 374, class III, category J (es. polyvinyl alcohol and equivalent materials)

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Respiratory protection:
 Filtering device (DIN EN 147).
 Mask with filter "A" , brown colour

Thermal Hazards:
 None

Environmental exposure controls:
 None

Appropriate engineering controls:
 Operate in well ventilated place.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance:	Liquid	--	--
Colour:	Transparent	--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	5,9	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	> 60 ° C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	Not applicable (the product is liquid)	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	1	--	--
Solubility in water:	Miscible	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	Not applicable (absence of chemical groups associated with explosive properties, pursuant to the provisions of Annex I, Part 2, chapter 2.1.4.3 of Reg. (EC) 1272/2008 (CLP)	--	--
Oxidizing properties:	Not applicable (absence of the requirements related to the presence of atoms and/or chemical bonds associated with oxidising properties in the molecules of the components, pursuant to the provisions of Annex I, Part 2, 2.13.4 of Reg. (EC) 1272/2008 (CLP).	--	--

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9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

In normal use and storage conditions dangerous reactions are not predictable.

10.4. Conditions to avoid

None in particular. However, follow the usual precautions against chemical products.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

Following thermal degradation, hazardous decomposition products (CO_x, NO_x and chlorine compounds) may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

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a) acute toxicity

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

b) skin corrosion/irritation

On the basis of available data and in view of the classification criteria set forth in table 3.2.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is classified as **Skin Corr. 1B H314**

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- c) serious eye damage/irritation
On the basis of available data and in view of the classification criteria set forth in table 3.2.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is classified as **Eye Dam. 1 H318**
- d) respiratory or skin sensitisation
On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.
- e) germ cell mutagenicity
On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.
- f) carcinogenicity
On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.
- g) reproductive toxicity
On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.
- h) STOT-single exposure
On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.
- i) STOT-repeated exposure
On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.
- j) aspiration hazard
On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

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Based on the evaluation of the classification of components and the classification provisions set out in Annex I, Part 4 of Reg. (EC) 1272/2008 and subsequent amendments, the mixture is classified **Aquatic Acute 1 - H400; Aquatic Chronic 2 - H411**

12.2. Persistence and degradability

NOT quickly degradable.

12.3. Bioaccumulative potential

Non applicabile

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12.4. Mobility in soil

Partition coefficient: soil / water > 4.7 l / kg Method: Guideline 106 for the OECD Test.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

Other information: None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

14.1. UN Number

ADR/ADN/RID: 1760
IMDG: 1760
IATA: 1760

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR/ADN/RID: 8
IMDG: 8
IATA: 8

14.4. Packing group

ADR/ADN/RID: II

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IMDG: II
IATA: II


14.5. Environmental hazards

ADR/ADN/RID:	YES
IMDG:	YES
Marine Pollutant:	NO
IATA:	YES

14.6. Special precautions for user

ADR/ADN/RID			
Classification code:	C9		
Transport category:	2		
Hazard identification No:	80		
Labels:	8 + environmentally hazardous		
Special provisions:	274		
Limited quantity:	1 L		
Excepted quantity:	E2		
Tunnel restriction code:	(E)		

IMDG			
Labels:	8 + environmentally hazardous		
Special provisions:	274		
Limited quantity:	1 L		
Excepted quantity:	E2		
EmS:	F-A, S-B		
Stowage and handling:	Category B SW2		
Segregation:	-		

IATA					
Labels:	Corrosive				
Excepted quantity:	E2				
Packing instruction:	Cargo:	855	Passengers:	851	Limited quantity: Y840
Max net Qty/Pkg:		30 L		1 L	0.5 L
Special provisions:	A3 - A803				

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk must comply with Annex II of MARPOL 73/78 and the IBC Code where applicable.

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SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:
Restriction 3

Restrictions related to the substances contained:
No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: E2

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Chemical-physical hazards: the hazard was derived from the classification criteria of the CLP Regulation Annex I Part 2 and s.m.i.

The health hazards have been assessed using the calculation method envisaged by Reg. (CE) 1272/2008 (CLP) and subsequent amendments. for the classification of mixtures when data exist on all the components of the mixture or on some of them:

Acute Tox: application of criteria Table 3.1.1. Annex I Part 3 of the CLP Regulation and subsequent amendments

Skin Corr. 1A / 1B / 1C H314: application of additivity formula criteria Table 3.2.3 Annex I Part 3 of the CLP Regulation

Skin Irrit 2 H315: application of the additive formula criteria Table 3.2.3 Annex I Part 3 of the CLP Regulation

Eye Dam 1 H318: application of additive formula criteria Table 3.3.3 Annex I Part 3 of the CLP Regulation

Eye Irrit. 2 H319: application of the formula of additivity criteria Table 3.3.3 Annex I Part 3 of the CLP Regulation

Eye Irrit. 2 H319: table 3.3.3 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) and subsequent amendments

Skin Sens 1A / 1B / 1 H317 Table 3.4.5 of Annex I, Part 3 of Reg. (CE) 1272/2008 (CLP) and subsequent amendments

The environmental hazards have been assessed using the calculation method provided for by Reg. (CE) 1272/2008 (CLP) and subsequent amendments for the classification of mixtures when data exist on all the components of the mixture or on some of them:

- toxicity to the aquatic environment acute effects: table 4.1.1 of Annex I, Part 4 of Reg. (EC) 1272/2008 (CLP) and subsequent amendments;

- toxicity to the aquatic environment chronic effects: table 4.1.2 of Annex I, Part 4 of Reg. (EC) 1272/2008 (CLP) and subsequent amendments

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

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ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.

Sections revised compared to the previous version: section 2, 16.