

**Algaban™ - Algae and Moss Cleaner**

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

## 01 Identification of the substance/mixture and of the company/undertaking

• .

• *Trade name:*  
ALGABAN

• Description

Mixture

The chemical name(s) and CAS/EC number(s) (if any) mentioned in Section 3 are in agreement with the naming provisions of REACH (Regulation EC 1907/2006 and subsequent amendments).

The biocidal active contained in this BTC was notified according to :

- the Biocidal Products Directive (BPD) (Directive 98/8/EC) under the numbers : CAS # 68424-85-1 & EC # 270-325-2,
- the Article 95 of the Biocidal Products Regulation (BPR) (Regulation EU 528/2012) under the name : "ADBAC".

Article number:

PQ429E

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

Application of the substance / the preparation

Surfactant ( Biocide )

Detergents

### **Details of the supplier of the safety data sheet**

*Manufacturer/Supplier:*

All For Stone Limited

4 Gardd y Gwanwyn

Northop Hall

CH7 6GA

Tel. 01244 531422

Nearest anti-poison centre or Guy's Hospital Poisons Unit,  
LONDON SE14 SER. (00 44 )(1 71) 6 35 91 91

## 02 Hazards identification

*Classification of the substance or mixture*

Classification according to Regulation (EC) No 1272/2008



GHS05

Skin Corr. 1B - H314 Causes severe skin burns and eye damage.



GHS07



GHS09

Aquatic Acute 1 - H400 Very toxic to aquatic life.

Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

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**PRODUCT : ALGABAN**

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C Corrosive  
N Dangerous for the environment

R 22  
Harmful if swallowed.  
R 34  
Causes burns.  
R 50  
Very toxic to aquatic organisms.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Label elements

Labelling according to Regulation (EC) No 1272/2008

\*



\*

GHS05

GHS07

GHS09

\*

Signal word

\*

Danger

Hazard-determining components of labelling:

\*

Quaternary ammonium compounds, benzyl-C12-14 (even-numbered)-alkyldimethyl, chlorides

\*

Hazard statements

\*

H314 Causes severe skin burns and eye damage.

\*

H302 Harmful if swallowed.

\*

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

\*

P273 Avoid release to the environment.

\*

P280 Wear protective gloves/protective clothing/eye protection/face protection.

\*

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

\*

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

\*

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

\*

P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

**Other hazards**

Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

\*

### 03 Composition/information on ingredients

**Chemical characterization:**

Description:

Mixture of substances listed below with nonhazardous additions.

Dangerous components:

\*

CAS N°

Description/Index R-phrases

%

\*

Quaternary ammonium compounds, benzyl-C12-14 (even-numbered)-alkyldimethyl, chlorides

40,00- 60,00

\*

EC number: 939-350-2

\*

Record number 01-2119970550-39-0000

\*

C N Xn

22-34-50

Skin Corr. 1B - H314; Acute Tox.



4 - H302; Aquatic Acute 1 - H400,

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Reviewed on: 20/10/2014

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64-17-5      **Aquatic Chronic 1 - H410**  
**ethanol**      **< 1,00**  
**EC number: 200-578-6**  
 **F**  
**11**  
 **Flam. Liq. 2 - H225**

**Additional information:**

See particular information, point 16.

For the wording of the listed risk phrases refer to section 16.

## 04 First aid measures

**Description of first aid measures**

**General information:**

Immediately remove any clothing soiled by the product.

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

**After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

**After swallowing:**

Call for a doctor immediately.

## 05 Firefighting measures

**Extinguishing media**

**Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:**

Water with full jet

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

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Hydrogen chloride (HCl)

Nitrogen oxides (NO<sub>x</sub>)

Hydrogen cyanide (HCN)

**Advice for firefighters**

**Protective equipment:**

No special measures required.

## 06 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Use respiratory protective device against the effects of fumes/dust/ aerosol.

Avoid contact with the eyes and skin.

**Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Prevent from spreading (e.g. by damming-in or oil barriers).

Keep contaminated washing water and dispose of appropriately.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation

**PRODUCT : ALGABAN**

## 07 Handling and storage

### **Handling:**

*Precautions for safe handling*

Prevent formation of aerosols.

Avoid contact with the eyes and skin.

*Information about fire - and explosion protection:*

No special measures required.

*Conditions for safe storage, including any incompatibilities*

### **Storage:**

*Requirements to be met by storerooms and receptacles:*

Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/ product.

*Information about storage in one common storage facility:*

Store away from foodstuffs.

*Further information about storage conditions:*

Keep container tightly sealed.

## 08 Exposure controls/personal protection

### **Additional information about design of technical facilities:**

No further data; see item 7.

### **Control parameters**

\* Quaternary ammonium compounds, benzyl-C12-14 (even-numbered)- alkyl dimethyl, chlorides

### **DNEL WORKERS**

\* Long term exposure - systemic effects, Dermal : DNEL = 5,7 mg/Kg/day

\* Long term exposure - systemic effects, Inhalation : DNEL = 3,96 mg/m<sup>3</sup>

### **DNEL GENERAL POPULATION**

\* Long term exposure - systemic effects, Oral : mg/Kg/day DNEL = 3,4 mg/Kg/day

\* Long term exposure - systemic effects, Dermal : DNEL = 3,4 mg/Kg/day

\* Long term exposure - systemic effects, Inhalation : DNEL = 1,64 mg/m<sup>3</sup>

### **PNEC WATER**

\* PNEC (freshwater) : 0,0009 mg/L

\* PNEC (marine water) : 0,00096 mg/L

\* PNEC (intermittent releases) : 0,00016 mg/L

### **PNEC SEDIMENT**

\* PNEC (freshwater) : 12,27 mg/Kg

\* PNEC (marine water) : 13,09 mg/Kg

### **PNEC SOIL**

\* PNEC (soil) : 7 mg/Kg

### **PNEC SEWAGE TREATMENT PLANT**

\* PNEC (STP) : 0,4 mg/L

**Ingredients with limit values where monitoring at the workplace is recommended :**

**CAS No.                      Designation of material**

**64-17-5                      ethanol**

### **OEL**

<b>Long-term value</b>	<b>1920</b>	<b>mg/m<sup>3</sup></b>
	<b>1000</b>	<b>ppm</b>

### **WEL**

<b>Long-term value</b>	<b>1920</b>	<b>mg/m<sup>3</sup></b>
	<b>1000</b>	<b>ppm</b>

*Additional information:*

The lists valid during the making were used as basis.

*Exposure controls*

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**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Safety shower at proximity.

Eye wash station at proximity.

**Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

**Protection of hands:** PVC gloves

**Eye protection:** Tightly sealed goggles **Face protection**

**Body protection:** Impervious protective clothing **Boots**

## 09 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

##### Appearance:

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless, Light yellow
<b>Odour:</b>	Characteristic

#### Change in condition

<b>Boiling point/Boiling range:</b>	> 100,0 °C
<b>Flash point:</b>	> 100,0 °C
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Density:</b>	0,9900 - 1,0000 g/cm <sup>3</sup> à 20 °C
<b>Solubility in / Miscibility with water:</b>	Fully miscible.
<b>pH-value:</b>	at 20,00 °C 6,5 - 8,5 ( 50,000 g/l eau) g/l water)
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.

## 10 Stability and reactivity

#### Reactivity

#### Chemical stability

#### Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat.

#### Dangerous reactions

Corrosive action on metals.

Reacts with acids, alkalis and oxidizing agents.

#### Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)

## 11 Toxicological Information

### Information on toxicological effects

#### Acute toxicity:

LD/LC50 values relevant for classification:

- \* **Quaternary ammonium compounds, benzyl-C12-14**
- \* **(even-numbered)-alkyldimethyl, chlorides**
- \* Oral, DL50: 397,5 mg/kg (rat)
- \* Dermal, DL50: 3412 mg/kg (Rabbit)

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**PRODUCT : ALGABAN**

*Irritation / Corrosivity*

on the skin:

Caustic effect on skin and mucous membranes.

on the eye:

Strong caustic effect.

**Additional toxicological information:**

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

*CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)*

Carcinogenicity

not classified

Mutagenicity

Not classified

Reproductive toxicity

Not classified

## 12 Ecological information

*Toxicity*

Aquatic toxicity:

- \* **Quaternary ammonium compounds, benzyl-C12-14**
- \* **(even-numbered)-alkyldimethyl, chlorides**
- \* fish, CL50 : 0,515 mg/l
- \* daphnia, CE50 : 0,016 mg/l
- \* alga, CL50 : 0,03 mg/l
- \* alga, NOEC : 0,009 mg/l

**Persistence and degradability**

*Other information:*

The product is readily biodegradable.

**Additional ecological information:**

*General notes:*

Do not allow product to reach ground water, water course or sewage system.

The product contains materials that are harmful to the environment.

**Results of PBT and vPvB assessment**

*PBT:*

Not applicable.

*vPvB:*

Not applicable.

## 13 Disposal considerations

**Waste treatment methods**

*Recommendation*

Must be specially treated adhering to official regulations.

Contact manufacturer for recycling information.

Do not empty into drains and avoid release to the environment. This product must be disposed in a certificated hazardous or special waste collection point.

**Uncleaned packaging:**

*Recommendation:*

Disposal must be made according to official regulations.

Packaging may be reused or recycled after cleaning.






If recycling is not possible, dispose according to the local regulations.

*Recommended cleansing agents:*

Water, if necessary together with cleansing agents.

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## 14 Transport information

	<b>UN-Number</b>	
	<b>ADR</b>	UN1760
	<b>IMDG</b>	UN1760
	<b>IATA</b>	UN1760
*	<b>UN proper shipping name</b>	
	<b>ADR</b>	1760 CORROSIVE LIQUID, N.O.S. (ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE)
*	<b>IMDG</b>	CORROSIVE LIQUID, N.O.S. (ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE)
*	<b>IATA</b>	CORROSIVE LIQUID, N.O.S. (ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE)
	<b>Transport hazard class(es)</b>	
	<b>ADR</b>	
	<b>Class</b>	8 (C9) Corrosive substances.
	<b>Label</b>	
		 
	<b>IMDG</b>	
	<b>Class</b>	8 Corrosive substances.
	<b>Label</b>	
		 
	<b>IATA</b>	
	<b>Class</b>	8 Corrosive substances.
	<b>Label</b>	
		
	<b>Packing group</b>	
*	<b>ADR</b>	II
*	<b>IMDG</b>	II
*	<b>IATA</b>	II
	<b>Environmental hazards:</b>	
	<b>Marine pollutant:</b>	Yes
	<b>Special precautions for user</b>	
	Warning: Corrosive substances.	
*	<b>Danger code (Kemler):</b>	80
	<b>EMS Number:</b>	F-A,S-B
*	<b>Segregation groups</b>	not applicable
	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	
	Not applicable.	
	<b>Transport/Additional information:</b>	
	Not applicable.	
	<b>Excepted quantities (EQ):</b>	E2
	<b>Limited quantities (LQ)</b>	1L
	<b>Transport category</b>	2
	<b>Tunnel restriction code</b>	E

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**PRODUCT : ALGABAN**

- UN "Model Regulation":**
- \* UN 1760 CORROSIVE LIQUID, N.O.S. (ALKYL DIMETHYL BENZYL AMMONIUM
  - \* CHLORIDE), 8, II, ENVIRONMENTALLY HAZARDOUS

**15 Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture**

Labelling according to Regulation (EC) No 1272/2008

This safety data sheet is in compliance with the Regulation (EC) N° 1907/2006

**Chemical safety assessment:**

A Chemical Safety Assessment has been carried out.

**Other data**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) N° 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

Contact point : info@allforstone.co.uk

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

R 11	Highly flammable.
R 22	Harmful if swallowed.
R 34	Causes burns.
R 50	Very toxic to aquatic organisms.

**Department issuing MSDS:**

Regulatory Affairs Departement

**Particular information**

- \* The following CAS-numbers 68424-85-1, 68391-01-5, 85409-22-9 may alternatively be used to EC-number 939-350-2. They are equal for the purpose of safety (REACH).

Alterations are indicated by asterisk \*.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent