

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance/preparation

Product name: Algae Clean
HSE No. 9241
PCS No.

1.2 Use of substance/preparation

Surface biocide for amateur use against moulds, algae and lichens on external hard surfaces.

1.3 Company/undertaking identification

Kilwaughter Minerals Limited

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1.4 Emergency telephone

Available during office hours +44 (0)28 2826 0766
European emergency number 112

2 HAZARD IDENTIFICATION

Not classified as hazardous according to EC classification

Hazard Statement None

Precautionary Statements

P264 Wash hands thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P301+P312 IF SWALLOWED: call a POISON CENTRE or doctor/physician
P330 Rinse mouth
P280 Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 IF ON SKIN: wash with plenty of soap and water
P312 Call a POISON CENTRE or doctor/physician if you feel unwell
P363 Wash contaminated clothing before reuse
P501 Dispose of contents/container to licensed waste contractor
P273 Avoid release to the environment
P391 Collect spillage. Hazardous to the aquatic environment
P501 Dispose of contents to licensed waste contractor

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 A water based product containing:

CAS: 63449-41-2;	Benzalkonium chloride	1-2 % w/w
EINECS: 264-151-6;	C, Xn, N; R21/22-34-50	
Index Number: 612-140-00-5		

Additional information

The active ingredient CAS-No. 63449-41-2 is also notified with
CAS-No : 61789-71-7 : 68391-01-5 : 8001-54-5 : 68424-85-1.

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

4 FIRST AID MEASURES

4.1



If contacting a physician, take this product safety data sheet with you.

Remove contaminated clothing.

4.2

**After skin contact**

Wash exposed area with soap and water, get medical advice if irritation occurs.

4.3

**After significant ingestion**

Rinse mouth and give plenty of water to drink, seek medical advice if symptoms persist.

4.4

**After significant inhalation**

Remove from source to fresh air. In case of sickness seek medical advice.

4.5

**After contact with eyes**

Wash thoroughly with clean water for at least 15 minutes, get specialist medical advice if irritation persists.

5 FIRE FIGHTING MEASURES**5.1 Suitable extinguishing media**

Water, spray jet, extinguishing powder, CO₂, foam

5.2 Extinguishing media which shall not be used for safety reasons

None

5.3 Special exposure hazards arising from the substance, combustion products, resulting gases

In case of fire toxic incineration products may be released such as Carbon Monoxide (CO) and Nitrogen Oxides (NO_x)

5.4 Special protective equipment for fire fighters

Wear self-contained breathing apparatus

6 ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions**

Wear protective clothing to avoid contact with skin; ensure sufficient ventilation.

6.2 Environmental precautions

Prevent from spreading; do not allow product to reach surface water.

6.3 Methods for cleaning up

Large spillages should be pumped into containers; small spillages should be mixed with absorbent material and collected mechanically. Dispose of as contaminated waste.

7 HANDLING AND STORAGE

- 7.1 Handling** Ensure adequate ventilation.
Do not contaminate foodstuffs, eating utensils or food contact surfaces
Wash hands and exposed skin before meals and after use.
- 7.2 Storage** Keep in a safe place.
Keep in original packaging.
Keep in a cool, well ventilated area.
Protect from frost.
- 7.3 Product specific** Use biocides safely.
Always read the label and product information before use.
Keep away from treated surfaces until dry.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 8.1 Exposure limit values** N/A
- 8.2 Exposure controls**
- 8.2.1a Respiratory Protection** Ensure adequate ventilation.
- 8.2.1b Hand Protection** Avoid contact with hands. Wash hands during work breaks and at the end of the shift.
- 8.2.1c Eye Protection** Avoid contact with the eyes
- 8.2.1d Skin protection** Avoid contact with skin
- 8.2.2 Environmental exposure controls**
Prevent release to the environment by adequate secondary containment design and use of appropriate spill control procedures.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 General Information

Appearance	Straw/light brown coloured, water based liquid
Odour	Faint

9.2 Important health, safety and environmental information

pH	7.0
Boiling Point	100 °C (water)
Flash point	36°C; the product is not combustible
Flammability	The product is not self-igniting
Explosive properties	The product is not explosive; however formation of explosive air/steam mixtures is possible.
Oxidising properties	Not applicable
Vapour pressure	Not tested
Relative Density	1.0
Solubility	Miscible in water
Water Solubility	Fully soluble
Partition coefficient: n-octanol/water	Not tested
Viscosity	Not tested
Vapour density	Not tested
Evaporation rate	Not tested

9.3 Other information

Melting point	0 °C (water)
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10 STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use and storage (see section 7).
10.1 Conditions to avoid	The product should not be mixed or diluted with other chemicals
10.2 Materials to avoid	Anionic compounds
10.3 Hazardous decomposition products	None if storage and handling is carried out as specified.

11 TOXICOLOGICAL INFORMATION**Acute toxicity:****LD/LC50 values that are relevant for classification:****63449-41-2 Benzalkonium Chloride**

Oral LD50 600 mg/Kg (rat)

Dermal LD 50 1560 mg/Kg (rat)

12 ECOLOGICAL INFORMATION**12.1 Ecotoxicity****Aquatic toxicity****63449-41-2 Benzalkonium chloride**

EC50 / 48h 0.016 mg/L (Daphnia)

IC50 72h 0.03 mg/L (Selenastrum capricornutum)

LC50 / 96h 0.85 mg/L (rainbow trout)

Behaviour in sewage processing plants**63449-41-2 Benzalkonium chloride**

EC50 /0.5h 11mg/L (Activated Sludge)

Note – depending on concentration , toxic effects on activated sludge organisms are possible

12.2 Mobility	Do not allow product to reach surface water
12.3 Persistence and biodegradability	The active ingredients are biodegradable up to the MIC for bacteria.
12.4 Biocumulative potential	The product does not contain heavy metals according to Directive EC 2006/11/EC
12.5 Results of PBT assessment	Chemical Safety report not carried out
12.6 Other adverse effects	The product does not contain substances which can influence the AOX of waste water

13 DISPOSAL CONSIDERATIONS

S60 – this material and/or its container must be disposed of as hazardous waste by a licensed waste contractor
Dispose of in accordance with local regulations

14 TRANSPORT INFORMATION

Classification	Not classified as hazardous for air, sea or road freight. No special precautions apply, refer to section 8
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15 REGULATORY INFORMATION

Product name: **Algae Clean**

This product is approved by the Health & Safety Executive in the UK, approval number HSE No. 9241 and by the Pesticide Control Service in Ireland, approval number PCS No.

Classification: Not hazardous.

For use only as a surface biocide.

Users must comply in full with their legal responsibilities under the Control of Pesticides Regulations 1986 (as amended), including complying with all conditions of approval.

To avoid risks to man and the environment, comply with the instructions for use.

This material and/or its container must be disposed of as hazardous waste

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

Do not contaminate foodstuffs, eating utensils or food contact surfaces.

Keep away from treated surfaces until dry.

Use biocides safely. Always read the label and product information before use.

16 OTHER INFORMATION

16.1 Hazard Statements

H302	Harmful if swallowed
H312	Harmful in contact with skin
H410	Very toxic to aquatic life with long lasting effects

16.2 Precautionary statements

Precautionary Statements

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16.3 Further information

For technical advise contact technical sales : Tel **+44 (0)28 2826 0766** Fax **+44 (0)28 2826 0136**
e-mail Sales@K-Rend.co.uk web www.Kilwaughter.com

16.4 Guidance and reference

Classification according to Regulation (EC) No 1272/2008

This data sheet is supplementary to other technical instruction and guidance and does not replace them.

This information is based on data currently available and is correct to the best of our knowledge at the time of publication. This information is given as guidance in assessing safe handling, storage, and use. Recipients of the product must take responsibility for the safe use and disposal of product observing existing laws, regulations and accepted best working practice.

16.5 Revision

Last revision: September 2016
