1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

Product: AlgoClear-Pro
Use(s): Surface biocide and wood preservative for external surfaces
Distributor: Thames Valley Specialist Products
PO Box 1945
Maidenhead SL6 2XR
Telephone: +44 1628 687 022

2. HAZARDS IDENTIFICATION

Physical & Chemical: NON HAZARDOUS
Health: HARMFUL IF SWALLOWED. CAUSES BURNS

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Substances</th>
<th>Chemical name</th>
<th>CAS-No</th>
<th>EINECS/ELINCS</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIDECYLDIMETHYLLAMMONIUM CHLORIDE</td>
<td>7173-51-5</td>
<td>230-525-2</td>
<td>Xn: R22</td>
<td>C: R34</td>
<td>Approx. 40%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General information: Remove contaminated clothing immediately, to be disposed of or washed before re-use.
Inhalation: Remove casualty to fresh air and provide warmth and rest. If necessary seek medical advice.
Skin contact: Clean areas of skin affected a once with soap and plenty of water; if necessary seek medical advice.
Eye contact: Wash eyes thoroughly with plenty of water until irritation subsides. Consult an eye specialist/ophthalmologist.
Ingestion: If product is swallowed, do NOT induce vomiting. Drink plenty of water and if necessary seek medical advice. Beware of aspiration if vomiting occurs.
5. FIRE FIGHTING MEASURES

**General hazard**
THE PRODUCT IS NOT FLAMMABLE

**Extinguishing media**
To suit local surroundings (e.g. water spray, foam, or chemical powder)

**Extinguishing media not to be used**
None known

**Special exposure hazards**
The thermal decomposition products released (oxides of nitrogen and carbon) should be considered toxic if inhaled.

**Protective equipment**
Wear self-contained breathing apparatus. Avoid run-off water entering the drains (e.g. use barriers)

6. ACCIDENTAL RELEASE MEASURES

**Methods for cleaning up**
Adhere to personal protective measures.
Take up with absorbent material, e.g. sand, sawdust, into tightly closed plastic containers.

**Environmental considerations**
Do not allow liquid to get into waste water or waterways; if this occurs, inform the relevant water authority at once.

**Further information**
Spillage will cause a slippery floor.

7. HANDLING & STORAGE

**Advice on safe handling**
Handle in accordance with good hygiene and safety practice. Keep in original containers which should be tightly closed, cool and dry.

**Storage conditions**
Ensure adequate ventilation of the storage area. Storage temperature should be 10-40°C.

**Further information**
Keep away from incompatible substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure controls**
There are no workplace exposure limit values available. Comply with good practice for the control of exposure.

**Engineering controls**
Ensure adequate ventilation of working area.

**Personal protection**
Observe normal standards for handling chemicals.
Avoid contact with skin and eyes
Wash thoroughly after handling (shower if necessary)
Do not eat, drink or smoke in the working area
Wear personal protective equipment appropriate to the task (see below)

**Eye protection**
Safety goggles (e.g. EN 166)

**Skin protection**
Plastic or rubber gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)

**Respiratory protection**
Approved respirator if ventilation is judged to be insufficient.

**Other protection**
Protective overalls or aprons
9. PHYSICAL & CHEMICAL PROPERTIES

Physical form: Liquid
Colour: Colourless to yellowish
Odour: Aromatic
pH: 6.5-8 (10 g/l @ 20°C)
Boiling pt / range: approx 100 °C
Freezing pt / range: Not determined °C
Flash point: > 100 °C
Specific gravity: 0.954 g/cm³ (@ 20°C)
Water solubility: Miscible in all proportions
Viscosity: 73 mPa.s @ 23°C (dynamic)

10. STABILITY & REACTIVITY

Stability: Stable under normal conditions of handling.
Thermal decomposition: Not determined
Conditions to avoid: None known
Material to avoid: The product is incompatible with acids and alkalies
Hazardous reactions: Hazardous polymerisation will not occur.
Hazardous decomposition products: Oxides of carbon and nitrogen following thermal decomposition.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: 
LD₅₀ rat (oral) 238 mg/kg Data for didecyldimethylammonium chloride
LD₅₀ rat (derm) > 2000 mg/kg
Dermal compatibility: Corrosive (4hours, OECD 404) (didecyldimethylammonium chloride)
Mucous membrane compatibility: Causes burns (didecyldimethylammonium chloride)
Further information: The product is not sensitising (Buehler test) and negative in Ames test (OECD 471)

12. ECOLOGICAL INFORMATION

Acute toxicity: 
LC₅₀ Fish (rainbow trout) 1.0 mg/l 96 h (OECD 203) data for 
EC₅₀ Daphnia magna 0.094 mg/l 48 h (EPA-FIFRA) didecyldimethylammonium chloride
EC₅₀ Algae 0.026 mg/l 96 h (OECD 201) chloride
Degradability: Readily degradable (72% - Sturm test) (didecyldimethylammonium chloride)
Further information: Since bats are a protected species under the Wildlife and Countryside Act 1981, consult English Nature, The Scottish Natural Heritage or The Countryside Council for Wales if structure to be treated is used by bats.

13. DISPOSAL CONSIDERATIONS

Advice on disposal: In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.
Contaminated packaging: Treat empty containers in the same way as the product or if possible wash out thoroughly and disposed safely.
14. TRANSPORT INFORMATION

United Nations number       UN 1760
Packaging group             III
IMDG code                   8/1760/III
RID / ADR                   8/III
ICAO / IATA                 8/1760/III
Marine pollutant           The product should not be marked as a marine pollutant
Proper shipping name       CORROSIVE LIQUID, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE)

15. REGULATORY INFORMATION

Classification & labelling The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 3.2) and the Dangerous Preparations Directive (1999/45/EC)
Contains didecyldimethylammonium chloride

CORROSIVE DANGEROUS FOR THE ENVIRONMENT

Risk phrases
R22: HARMFUL IF SWALLOWED
R34: CAUSES BURNS
R50: VERY TOXIC TO AQUATIC ORGANISMS.

Safety phrases
S25: AVOID CONTACT WITH EYES.
S26: IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S36/37/39: WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.
S61: AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET.

Relevant legislation Control of Substances Hazardous to Health Regulations 2002 (as amended) to be considered.

16. OTHER INFORMATION

Further information

Risk phrases given in section 3
R22: Harmful if swallowed
R34: Causes burns

Sources of data The Approved Supply List, other suppliers’ safety data sheets, EH40/2005
Date of issue June 2013

This information is based on our present state of knowledge and is intended to describe our products from the point of view of the health and safety requirements. It should not be construed as guaranteeing specific properties.