

Material Safety Data Sheet

According to 91/155 EEC

Printing date 10.04.2005

Reviewed on 10.04.2005

1 Identification of substance:

· **Product details:**

· **Trade name:** Pool Power Algicide

· **Application of the substance / the preparation** Chemicals for various applications

· **Manufacturer/Supplier:**

Melspring International BV
Jansbuitensingel 20, P.O. Box 143
NL-6800 AC Arnhem

Phone: +31-(0)26-44 51 251

Fax: +31-(0)26-44 25 093

· **Informing department:** Sales/ Technics

· **Emergency information:**



National (Dutch) Toxic Information Center
Phone: ++31-302748888

2 Composition/Data on components:

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with harmless products.

· **Dangerous components:**

CAS: 7173-51-5 EINECS: 230-525-2 EC Number: 612-131-00-6	Didecyldimethylammonium chloride	 C, N; R 22-34-50	2.5-10%
CAS: 67-63-0 EINECS: 200-661-7 EC Number: 603-117-00-0	Propan-2-ol	 Xi, F; R 11-36-67	< 2.5%

· **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· **Hazard designation:**



Xi Irritant

· **Information pertaining to particular dangers for man and environment**

R 36 Irritating to eyes.

· **Classification system**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

4 First aid measures

· **General information** Remove contaminated clothing.

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

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- **After swallowing**
Rinse out mouth and then drink plenty of water.
In case of persistent symptoms consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** none
- **Special hazards caused by the material, its products of combustion or flue gases:**
Nitrogen oxides (NO_x)
Hydrogen chloride (HCl)
Carbon monoxide and carbon dioxide
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Cool endangered containers with water spray jet.
Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation.
Keep people at a distance and stay on the windward side.
Avoid skin and eye contact.
Do not breathe vapours.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or water bodies.
Inform respective authorities in case product reaches water or sewage system.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Avoid skin and eye contact.
Avoid breathing vapours.
Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:**
The product forms flammable fumes when heated.
- **Storage**
- **Requirements to be met by storerooms and containers:**
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Not required
- **Further information about storage conditions:**
Keep container tightly sealed.

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Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with critical values that require monitoring at the workplace:**

67-63-0 Propan-2-ol

OES (Great Britain)	Short-term value: 1250 mg/m ³ , 500 ppm
	Long-term value: 999 mg/m ³ , 400 ppm

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Avoid contact with the eyes and skin.

Wash hands during breaks and at the end of the work.

· **Breathing equipment:**

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

· **Protection of hands:**

Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check the permeability prior to each renewed use of the glove.

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Eye protection:** Safety glasses

9 Physical and chemical properties:

· **General Information**

Form:	liquid
Colour:	blue
Smell:	characteristic

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: >80°C

· **Flash point:** > 55°C

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Vapour pressure at 20°C:** 23 hPa

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- | | |
|--|------------------------|
| · Density at 20°C | ~1.0 g/cm ³ |
| · Solubility in / Miscibility with Water: | fully miscible |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:**
Strong oxidizing agents
Strong acids
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:**
Nitrogen oxides (NO_x)
Hydrogen chloride (HCl)
Carbon monoxide and carbon dioxide

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

7173-51-5 Didecyldimethylammonium chloride

Oral	LD50	645 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritating for the skin
- **on the eye:** Irritant effect
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information:

- **General notes:** Water hazard class 2 (Self-assessment); hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.
- **European waste catalogue**
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

· **Land transport ADR/RID (cross-border)**

· **ADR/RID Class:** -

· **Maritime transport IMDG/GGVSea:**

· **IMDG/GGVSea Class:** -

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

· **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

· **Designation according to EC guidelines:**

The product has been classified/labelled in accordance with EC Directives / relevant national laws.

· **Code letter and hazard designation of product:**



Xi Irritant

· **Risk phrases:**

36 Irritating to eyes.

· **Safety phrases:**

2 Keep out of the reach of children.

24 Avoid contact with skin.

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

· **Ingredients according to Recommendation 89/542/EEC**

cationic surfactants

< 5%

· **National regulations**

· **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

· **Decree to be applied in case of technical fault:** -

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· Relevant R-phrases

The (se) R-phrase(s) are those of the ingredient(s) and do(es) NOT represent the classification of the preparation.

11 Highly flammable.

22 Harmful if swallowed.

34 Causes burns.

36 Irritating to eyes.

50 Very toxic to aquatic organisms.

67 Vapours may cause drowsiness and dizziness.

· Department issuing data specification sheet:

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