

# Safety Data Sheet

according to 1907/2006/EC, Article 31



Printing date 23.09.2010

Revision: 23.09.2010

## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** **KEIM Algicid-Plus**
- **Application of the substance / the preparation** Biocide
- **Manufacturer/Supplier:**  
 KEIM MINERAL PAINTS LTD  
 Santok Building  
 Deer Park Way  
 Donnington Wood  
 Telford  
 Shropshire  
 TF2 7NA  
 United Kingdom  
 Tel: +44 1952 231250  
 Fax: +44 1952 231251  
 Url: <http://www.keimpaints.co.uk>
- **Further information obtainable from:**  
 David Pratt  
 Telefon: +44 1952 231250  
 E-Mail: [sales@keimpaints.co.uk](mailto:sales@keimpaints.co.uk)
- **Information in case of emergency:**  
 GBK Gefahrgut Büro GmbH  
 Emergency number: +49(0)6132/84463

## 2 Hazards identification

- **Hazard description:**  
 Xi Irritant
- **Information concerning particular hazards for human and environment:**  
 R 43 May cause sensitisation by skin contact.
- **Classification system:**  
 The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 3 Composition/information on ingredients

- **Chemical characterization** Isothiazolinone-preparation
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 26530-20-1 EINECS: 247-761-7	2-octyl-2H-isothiazol-3-one T, C, N; R 22-23/24-34-43-50/53	0.081%
CAS: 7173-51-5 EINECS: 230-525-2	didecyldimethylammonium chloride C, Xn; R 22-34	0.36%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol Xi, F; R 11-36-67	0.135%

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

GB

(Contd. on page 2)



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Trade name: KEIM Algacid-Plus

(Contd. of page 1)

## 4 First aid measures

- **General information:** When seeing the doctor we suggest to present this safety data sheet.
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately 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. Then consult a doctor.
- **After swallowing:**  
Rinse mouth and throat well with water.  
Do not induce vomiting; call for medical help immediately.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or resistant foam.
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
In case of fire do not breath smoke, fumes and vapours.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

- **Person-related safety precautions:**  
Avoid contact with skin and eyes.  
Do not inhale fumes.  
Ensure adequate ventilation  
Respect the protection rules (see section 7 a. 8).  
Keep casual persons away.
- **Measures for environmental protection:**  
Do not allow product to reach soil, sewage system or any water course.  
Follow local governmental rules and regulations.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.  
Clear contaminated areas thoroughly.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Keep receptacles tightly sealed.  
Ensure good ventilation/exhaustion at the workplace.  
Avoid contact with skin and eyes.  
Prevent formation of aerosols.

(Contd. on page 3)

GB



## Safety Data Sheet

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(Contd. of page 2)

- See item 8 for information about suitable protective equipment and technical precautions.  
Respect the protection rules.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in unopened original receptacles.  
Keep in the original containers in a cool and dry place.
- **Information about storage in one common storage facility:**  
Store away from reducing agents.  
Store away from oxidizing agents.  
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:**  
Store in a cool place.  
Protect from frost.  
Protect from heat and direct sunlight.  
Protect from humidity and water.
- **Storage class:** 12

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.  
Do not inhale aerosols.
- **Respiratory protection:**  
Use suitable respiratory protective device only when aerosol or mist is formed.
- **Protection of hands:** Protective gloves
- **Material of gloves**  
suitable material e.g.:  
Nitrile impregnated cotton-gloves  
Butyl rubber, BR  
Recommended thickness of the material:  $\geq 0.5$  mm  
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.
- **Penetration time of glove material**  
Value for the permeation: Level  $\geq 6$  (480 min)  
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **Eye protection:** Safety glasses

(Contd. on page 4)



## Safety Data Sheet

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Printing date 23.09.2010

Revision: 23.09.2010

Trade name: KEIM Algicid-Plus

(Contd. of page 3)

- **Body protection:** Protective work clothing

### 9 Physical and chemical properties

#### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Clear
<b>Odour:</b>	Odourless

#### · Change in condition

<b>Melting point/Melting range:</b>	~ 0°C
<b>Boiling point/Boiling range:</b>	100°C

- **Flash point:** > 100°C

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

#### · Explosion limits:

<b>Oxidizing properties</b>	Not applicable
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- **Vapour pressure at 20°C:** ~ 23 hPa

<b>Density at 20°C:</b>	1* g/cm <sup>3</sup>
<b>Vapour density</b>	Not applicable
<b>Evaporation rate</b>	Not applicable

#### · Solubility in / Miscibility with water:

Fully miscible.

- **pH-value at 20°C:** 6\*

- **Segregation coefficient (n-octanol/water):** Not applicable

#### · Viscosity:

<b>Dynamic:</b>	Not determined
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- **Additional information:** \* The values are for freshly produced material and may change with the time.

### 10 Stability and reactivity

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

No decomposition if used according to specifications.

#### · Materials to be avoided:

- reducing agents
- oxidizing agents
- Bases

#### · Dangerous decomposition products:

No hazardous decomposition products if stored and handled as prescribed.

GB

(Contd. on page 5)



## Safety Data Sheet

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Trade name: KEIM Algicid-Plus

(Contd. of page 4)

### 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:** Not determined
- **Primary irritant effect:**
- **on the skin:** Frequent persistent contact with the skin may cause skin irritation.
- **on the eye:** In case of longer exposure, irritating effect is possible.
- **during swallowing:** Irritant effect possible
- **Other information (about experimental toxicology):**  
Experimental analysis are not available.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant
- **Sensitisation** May cause sensitisation by skin contact.

### 12 Ecological information

- **Additional ecological information:**
- **AOX-indication:**  
The product can take influence in small measure on the AOX-load of the waste water.
- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 76/464 EC:**  
According to our current data base the product does not consist of any heavy metals or substances of EU-directives 76/464/EWG.
- **General notes:**  
At present there are no ecotoxicological assessments.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

### 13 Disposal considerations

- **Product:**
  - **Recommendation**  
Disposal must be made according to official regulations.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  - **European waste catalogue**
- |          |                                |
|----------|--------------------------------|
| 07 06 99 | wastes not otherwise specified |
|----------|--------------------------------|
- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -

(Contd. on page 6)

GB



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Revision: 23.09.2010

**Trade name: KEIM Algicid-Plus**

(Contd. of page 5)

- **Maritime transport IMDG:**
- **IMDG Class:** -

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:**  
No dangerous good in sense of these transport regulations.

### 15 Regulatory information

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**  
Xi Irritant
- **Hazard-determining components of labelling:**  
2-octyl-2H-isothiazol-3-one
- **Risk phrases:**  
43 May cause sensitisation by skin contact.
- **Safety phrases:**  
2 Keep out of the reach of children.  
24 Avoid contact with skin.  
35 This material and its container must be disposed of in a safe way.  
37 Wear suitable gloves.

### 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 R-phrases**  
11 Highly flammable.  
22 Harmful if swallowed.  
23/24 Toxic by inhalation and in contact with skin.  
34 Causes burns.  
36 Irritating to eyes.  
43 May cause sensitisation by skin contact.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
67 Vapours may cause drowsiness and dizziness.
- **Department issuing MSDS:** Product safety department
- **Contact:** Mrs. Popescu