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Safety data sheet according to 1907/2006/EC, Article 31

Version number 13.0 (replaces version 12.0) Printing date 31.01.2022 Revision: 31.01.2022

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- · 1.1 Product identifier
- · Trade name: KEIM ALGICID (ALGICID-PLUS)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Biocide
- · Uses advised against All other uses are not recommended.
- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

KEIM MINERAL PAINTS LTD

Santok Building / Deer Park Way, Donnington Wood GB-Telford, Shropshire TF2 7NA Tel +44 1952 231 250 / Fax +44 1952 231 251

www.keim.com / sales@keimpaints.co.uk

· Further information obtainable from:

David Pratt

Telefon: +44 1952 231250 E-Mail: sales@keimpaints.co.uk · 1.4 Emergency telephone number: GBK GmbH Global Regulatory Compliance Emergency number: +49(0)6132/84463

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aguatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



- · Signal word Warning
- · Hazard-determining components of labelling:

2-octvl-2H-isothiazol-3-one

· Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P102 Keep out of reach of children.

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P262 Do not get in eyes, on skin, or on clothing. P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves / protective clothing.

P273 Avoid release to the environment.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

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

· Additional information:

Contains biocidal products: didecyldimethylammonium chloride, 2-octyl-2H-isothiazol-3-one

- 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicablevPvB: Not applicable

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Biocide Preparation in water

Dangerous components:		
	didecyldimethylammonium chloride Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302	0.114%
	2-octyl-2H-isothiazol-3-one	0.025%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Seek medical treatment in case of complaints.

When seeing the doctor we suggest to present this safety data sheet.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

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· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Do not use solvents or thinners.

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.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:

Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

· 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

- · 5.3 Advice for firefighters
- · Specila protective equipment: Wear self-contained respiratory protective device.
- · Additional information

In case of fire do not breathe smoke, fumes and vapours.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Do not inhale fumes.

Ensure adequate ventilation

Respect the protection rules (see section 7 a. 8).

Keep uninvolved people away.

6.2 Environmental precautions:

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

Follow local governmental rules and regulations.

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

6.3 Methods and material for containment and cleaning up:

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

Dispose of the material collected according to regulations.

Clear contaminated areas thoroughly.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Open and handle receptacle with care.

Avoid contact with skin and eyes.

Prevent formation of aerosols.

See item 8 (8.2) for information about suitable protective equipment and technical precautions. Respect the protection rules.

Information about fire - and explosion protection:

The product is not flammable.

No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Keep in the original containers in a cool and dry place.

Store only in unopened original receptacles.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Store in a cool place.

Protect from frost.

Protect from heat and direct sunlight.

Please note information on label

- Storage class: 12
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · 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.

7173-51-5	didecyldimethylammonium	chloride	
	Long-term - systemic effects		
Inhalative Long-term - systemic effects 18.2 mg/m³ (worker)			
PNECs			
7173-51-5	didecyldimethylammonium	chloride	
Aquatic co	mpartment - freshwater	0.002 mg/l (freshwater)	
			(Contd. on p



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Aquatic compartment - marine water	0.0002 mg/l (marine water)
Aquatic compartment - water, intermittent releases	0.00029 mg/l (not specified)
Aquatic compartment - sediment in freshwater	2.82 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	0.28 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	1.4 mg/kg dw (soil)
Sewage treatment plant	0.595 mg/l (sewage treatment plant)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale aerosols.

· Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.

Combination filter A/P

- · Hand protection Protective gloves
- · Material of gloves

suitable material e.g.:

Nitrile impregnated cotton-gloves

Butyl rubber, BR

Recommended thickness of the material: ≥ 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 > 6 (480 min)

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye/face protection Tightly sealed goggles
- **Body protection:**

Protective work clothing

After contact with skin wash thoroughly with water and apply lotion.

Environmental exposure controls

See Section 12 and 6.2

No further relevant information available.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odourless
Odour threshold:
Fluid
Clear
Odourless
Not determined

· Melting point/freezing point: ~0 °C

Boiling point or initial boiling point and

boiling range ~100 °C · Flammability Not applicable

· Lower and upper explosion limit

Lower: Not applicableUpper: Not applicableFlash point: Not applicable

· **Auto-ignition temperature:** Product is not selfigniting.

Decomposition temperature: Not determined

pH at 20 °C 6-7

Viscosity:

Kinematic viscosityDynamic:Not determinedNot determined.

Solubility

· water: Fully miscible

· Partition coefficient n-octanol/water (log

value)
Not applicable

vapour pressure at 20 °C:
~23 hPa

Density and/or relative density

Density at 20 °C: 1-1.1* g/cm³
 Relative density Not determined
 Vapour density Not applicable.

and may change with the time.

· Appearance:

Form: Fluid

· Important information on protection of health

and environment, and on safety.

· Ignition temperature: Not determined

• Explosive properties: Product does not present an explosion hazard.

· Change in condition

· Softening point/range

· Oxidising properties:
· Evaporation rate

Not applicable
Not applicable

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Information with regard to physical haz	ard	
classes		
· Explosives	Void	
· Flammable gases	Void	
Aerosols	Void	
· Oxidising gases	Void	
Gases under pressure	Void	
· Flammable liquids	Void	
· Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability Stable under normal conditions of storage and use.
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

reducing agents

oxidizing agents

Bases

· 10.6 Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed.

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SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity

· LD/LC50 values relevant for classification:		
7173-51-5 didecyldimethylammonium chloride		
Oral	LD50	329 mg/kg (rat)
Dermal	LD50	2,930 mg/kg (rabbit)
26530-20-1 2-octyl-2H-isothiazol-3-one		
Oral	LD50	125 mg/kg (ATE)
		318 mg/kg (rat) (OECD 401)
Dermal	LD50	311 mg/kg (ATE)
		311 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	0.27 mg/l (ATE)

- · Skin corrosion/irritation Frequent persistent contact with the skin may cause skin irritation.
- Serious eye damage/irritation In case of longer exposure, irritating effect is possible.
- · during inhalation: Irritant effect possible.
- · during swallowing: Irritant effect possible
- Respiratory or skin sensitisation

Contains OIT.

May cause an allergic skin reaction. OIT = 2-octyl-2H-isothiazol-3-one

· Other information (about experimental toxicology):

Experimental analysis are not available.

The product was not tested. The statements on toxicology have been derived from the properties of the individual components.

- · Subacute to chronic toxicity:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Not applicable
- 11.2 Information on other hazards
- Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity:

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

7173-51-5 didecylo	7173-51-5 didecyldimethylammonium chloride	
NOEC	0.021 mg/l (daphnia) (21d)	
EC 50/48h (static)	0.029 mg/l (daphnia)	

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EC 50/72 h (static)	3.6 mg/l (algae)
LC 50/96 h	0.2 mg/l (fish)
LC50/EC50/IC50	<1 mg/l (fish)
26530-20-1 2-octyl	-2H-isothiazol-3-one
NOEC	0.022 mg/l (fish) (21d)
	0.0016 mg/l (daphnia) (21d)
EC 50/48h	0.32 mg/l (daphnia) (OECD 202)
EC 50/3h	30.2 mg/l (activated sludge) (OECD 209)
EC 50/72 h	0.084 mg/l (algae) (OECD 201)
LC 50/96 h	0.047 mg/l (fish) (OECD 203)
LC50/EC50/IC50	<1 mg/l (fish)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable
- vPvB: Not applicable
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · 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. 2006/11/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:

Danger to drinking water if even small quantities leak into the ground.

At present there are no ecotoxicological assessments.

The statements on ecotoxicology have been derived from the properties of the individual components.

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

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

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· European waste catalogue

16 10 01* aqueous liquid wastes containing hazardous substances

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary with cleansing agents.

SECTION 14: Transport informat	tion
· 14.1 UN number or ID number · ADR, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable
· 14.7 Maritime transport in bulk accordi IMO instruments	ng to Not applicable
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Labelling according to Regulation (EC) No 1272/2008

For information on labelling please refer to section 2 of this document.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations:
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- Other regulations, limitations and prohibitive regulations
- · Please note:

TRGS 200 (Germany)

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TRGS 500 (Germany) TRGS 510 (Germany) TRGS 900 (Germany)

- Substances of very high concern (SVHC) according to REACH, Article 57 Not applicable
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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

Toxic if swallowed. H301

Harmful if swallowed. H302

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

· Department issuing SDS: KEIMFARBEN Germany, Product safety department

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning

the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

EC10: Effective concentration at 10% mortality rate.

EC50: Half maximal effective concentration.

LC10: Lethal concentration at 10% mortality rate.

NOEC: No observed effect concentration.

REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)

Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1: Skin corrosion/irritation - Category 1

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

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Skin Sens. 1A: Skin sensitisation – Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

^{*} Data compared to the previous version altered.