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

Printing date 05.08.2016

Version number 10

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

- · 1.1 Product identifier
- · Trade name: KEIM ECOSIL-ME
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Silicate interior paint
- · 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.keimpaints.co.uk / sales@keimpaints.co.uk

· Further information obtainable from:

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• 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

The product is not classified according to the CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards Alkaline product. Avoid contact with skin and eyes.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Aqueous solution of alkali silicate and mineral mixture

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Dangerous components:		
CAS: 1314-98-3 EINECS: 215-251-3 Reg.nr.: 01-2119475779-15-xxxx	zinc sulphide	2.5-10%

SECTION 4: First aid measures

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

No special measures required.

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

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · 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 out mouth and then drink plenty of 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

In case of fire, the following can be released:

carbon oxide (COx)

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

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. In case of fire do not breathe smoke, fumes and vapours.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Respect the protection rules (see section 7 a. 8).

Avoid contact with skin and eyes.

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Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

· 6.2 Environmental precautions:

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

Follow local governmental rules and regulations.

· 6.3 Methods and material for containment and cleaning up:

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

Ensure adequate ventilation.

Dispose of the material collected according to regulations.

Clear contaminated areas thoroughly.

· 6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

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.

Avoid contact with skin and eyes.

Ensure good ventilation/exhaustion at the workplace.

Do not inhale aerosols.

See item 8 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:

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: Do not store together with acids.
- · Further information about storage conditions:

Protect from frost.

Store in a cool place.

Protect from heat and direct sunlight.

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

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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.

	DIRECT				
Ī	1314-98-3 zinc sulphide				
	Inhalative Acute - local effects, worker 5 mg Zn/m³ (worker) (insoluble Zn)				
	· PNECs				
Ī	1314-98-3 zinc sulphide				
Ī	Aquatic compartment - freshwater	(Zn) 0.0206 mg/l (freshwater) (PNEC acid)			
	Aquatic compartment - marine water	(Zn) 0.0061 mg/l (marine water) (PNEC acid)			
	Aquatic compartment - sediment in freshwater	(Zn) 235.6 mg/kg sed dw (sediment fresh water) (Faktor 0,5; EZB 2008)			
	Aquatic compartment - sediment in marine water	(Zn) 113 mg/kg sed dw (sediment marine water) (Faktor 0,5; EZB 2008)			
	Terrestrial compartment - soil	(Zn) 106.8 mg/kg dw (soil) (Faktor 3; EZB 2008)			
	Sewage treatment plant	(Zn) 0.052 mg/l (sewage treatment plant)			

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

Avoid contact with the eyes and skin.

Do not inhale aerosols.

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing

· Respiratory protection:

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

Filter: P

· Protection of hands: Protective gloves

· Material of gloves

suitable material e.g.:

Nitrile impregnated cotton-gloves

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.5 mm

PVC or PE gloves

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.

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· 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.

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

• **Eye protection:** Tightly sealed goggles • **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties · General Information			
· Appearance:			
Form:	Pasty		
Colour:	Different, according to colouring.		
· Odour:	Characteristic		
· Odour threshold:	Not determined.		
· pH-value at 20 °C:	11.3*		
· Change in condition			
Melting point/Melting range:	Undetermined.		
Boiling point/Boiling range:	Undetermined.		
· Flash point:	Not applicable.		
· Ignition temperature:	Not determined.		
Decomposition temperature:	Not determined.		
· Self-igniting:	Product is not selfigniting.		
· Danger of explosion:	Product does not present an explosion hazard.		
· Explosion limits:			
Lower:	Not applicable.		
Upper:	Not applicable.		
· Oxidising properties	Not applicable		
· Vapour pressure at 20 °C:	~23 hPa		
· Density at 20 °C:	1.55* g/cm³		
· Relative density	Not determined.		
· Vapour density	Not applicable		
· Evaporation rate	Not applicable		
· Solubility in / Miscibility with			
water:	miscible		

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· Partition coefficient (n-octanol/water): Not applicable

· Viscosity:

Dynamic at 20 °C: 1500-1900* mPas **Kinematic:** Not determined.

* The values are for freshly produced material and may

change with the time.

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: Acids

10.6 Hazardous decomposition products:

In case of fire, the following can be released:

carbon oxide (COx)

No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

1314-98-3 zinc sulphide

		> 2000 mg/kg (rat)
Inhalative	LC50/4 h	> 5.7 mg/l (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation Frequent persistent contact with the skin may cause skin irritation.
- Serious eye damage/irritation slightly irritant
- · during inhalation: Irritant effect possible.
- during swallowing: Irritant effect possible
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · 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.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) not applicable
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.

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- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

1314-98-3 zinc sulphide

EC 50/48h (Zn) 204 mg/l (daphnia) (pH <7)

EC 50/72 h (Zn) 144 mg/l (algae) (pH >7 - 8,5)

- · 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.
- · Additional ecological information:
- · AOX-indication:

Due to the substance of content which do not include organic jointed halogens, the product can not take influence 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:

The product contains BaSO4, TiO2, ZnS.

· General notes:

At present there are no ecotoxicological assessments.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation Disposal must be made according to official regulations.
- European waste catalogue

08 01 12 | waste paint and varnish other than those mentioned in 08 01 11

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

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SECTION 14: Transport informat	tion
· 14.1 UN-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 Transport in bulk according to An of Marpol and the IBC Code	nex II Not applicable.
· Transport/Additional information:	No dangerous good in sense of these transport regulations.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations:
- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57 not applicable
- · Product-Code/Giscode: M-SK01
- · 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.

· Department issuing SDS: KEIMFARBEN Germany, Product safety department

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· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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)

VOC: Volatile Organic Compounds (USA, EU)
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

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

* Data compared to the previous version altered.

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