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

Printing date 29.04.2021

Version number 13.0

Revision: 29.04.2021

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

1.1 Product identifier

• Trade name: KEIM ECOSIL-ME

Nanoform

- 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: KEIMFARBEN GMBH Keimstraße 16 / 86420 Diedorf Tel. +49 (0)821 4802-0 Fax +49 (0)821 4802-210 www.keim.com / info@keimfarben.de

• Further information obtainable from: Product safety department Telefon: 49(0)821/4802-138 E-Mail: sdb.info@keimfarben.de

• **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

- Additional information:
- EUH210 Safety data sheet available on request.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

- · 2.3 Other hazards Alkaline product. Avoid contact with skin and eyes.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable
- · vPvB: Not applicable

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• **Description:** Aqueous solution of alkali silicate and mineral mixture

· Dangerous components:		
CAS: 1312-76-1 EINECS: 215-199-1 Reg.nr.: 01-2119456888-17- xxxx	Silicic acid, potassium salt Skin Irrit. 2, H315; Eye Irrit. 2, H319 Specific concentration limits: Skin Irrit. 2; H315: $C \ge 40 \%$ Eye Irrit. 2; H319: $C \ge 40 \%$	2.5-10%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119486799-10- xxxx	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 µm] & Carc. 2, H351	2.5-10%
CAS: 1314-98-3 EINECS: 215-251-3 Reg.nr.: 01-2119475779-15- xxxx	zinc sulphide substance with a Community workplace exposure limit	2.5-10%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17- xxxx	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]	≥0.1-≤2.5%

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: 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 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.

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(Contd. of page 2) • **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) silicon dioxid (SiO2)
- 5.3 Advice for firefighters
- · Specila 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. 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.
 6.4 Reference to other sections 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. Do not inhale aerosols.

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(Contd. of page 3) See item 8 (8.2) for information about suitable protective equipment and technical precautions. Respect the protection rules.

- Information about fire and explosion protection: No special measures required. The product is not flammable.
- 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.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with
aerodynamic diameter ≤ 10 μm]

AGW (Germany) Long-term value: 1.25* 10** mg/m³

2(II);*alveolengängig**einatembar; AGS, DFG

1314-98-3 zinc sulphide

Long-term value: 0.1A* 2E** mg/m ³
*alveolengängig; **einatembar

·DNELs

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 μm]

Inhalative Long-term - local effects 10 mg/m³ (not specified)

· PNECs

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]
Aquatic compartment - freshwater 0 127 mg/l (freshwater)

Aqualic compartment - rreshwater	0.127 mg/l (ireshwater)
Aquatic compartment - marine water	>1 mg/l (marine water)
Aquatic compartment - sediment in freshwater	>1,000 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	>100 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	>100 mg/kg dw (soil)
Sewage treatment plant	100 mg/l (sewage treatment plant)



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Additional information: The lists v	Contd. of pag) alid during the making were used as basis.
8.2 Exposure controls	
•	such as personal protective equipment
General protective and hygienic	
Wash hands before breaks and at t	
Avoid contact with the eyes and ski	
Do not inhale aerosols.	
Respiratory protection:	
	levice only when aerosol or mist is formed.
Hand protection Protective gloves	
Material of gloves	
suitable material e.g.:	
Nitrile impregnated cotton-gloves	
Butyl rubber, BR	
Recommended thickness of the ma	terial: \geq 0.5 mm
PVC or PE gloves	
Recommended thickness of the ma	
of quality and varies from manufact substances, the resistance of the gl to be checked prior to the application	
Penetration time of glove materia	
Value for the permeation: level ≥ 6	
	according to EN 16523-1:2015 are not performed under pract vearing time, which corresponds to 50% of the penetration til
	be found out by the manufacturer of the protective gloves
has to be observed.	so really out by the manadotation of the protective gloves
Eye/face protection	
Goggles recommended during refill	ng
Tightly sealed goggles	
Body protection: Protective work of	
Environmental exposure controls	i
See Section 12 and 6.2	
No further relevant information avai	lable.
SECTION 9: Physical and c	nemical properties
9.1 Information on basic physical	and chemical properties
 General Information Physical state 	Fluid
	Fiuld Different eccording to colouring

- · Colour:
- Odour:
 Odour threshold:

Fluid Different, according to colouring. Weak, characteristic Not determined

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Melting point/freezing point: Boiling point or initial boiling point and	Not determined
boiling range	Not determined
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	Not applicable
Upper:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined
pH at 20 °C	~11*
Viscosity:	
Kinematic viscosity	Not determined
Dynamic at 20 °C:	1.400-1.900* mPas
Solubility	
water:	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:	1.4-1.7* g/cm³
Relative density	Not determined
Vapour density	Not applicable.
9.2 Other information	* The values are for freshly produced materia and may change with the time.
Appearance:	
Form:	Pasty
Important information on protection of hea	•
and environment, and on safety.	
Ignition temperature:	Not determined
Explosive properties:	Product does not present an explosion hazard.
Change in condition	r roduct does not present an explosion nazard.
Evaporation rate	Natappliable
•	Not applicable
Information with regard to physical haza	ard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
	Void
Flammable solids	VOId
	Void
Flammable solids	

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· 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
Other safety characteristics	
Photocatalytic properties	The product has photocatalytic properties.

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 oxides (COx)
- silicon dioxid (SiO2)

No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

• **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008** • **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	>5 mg/l (rat)
		oxide [in powder form containing 1 % or more of particles wit
Inhalative		ic diameter ≤ 10 μm] >5 mg/l (inhalation)
Inhalative		>5 mg/l (inhalation) >2,000 mg/kg (dermal)
Inhalative	ATE mix (4h)	>5 mg/l (inhalation)



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1314-98-3	zinc sulphid	e
Oral	LD50	>15,000 mg/kg (rat) (OECD 401)
13463-67		ioxide [in powder form containing 1 % or more of particles wi ic diameter \leq 10 µm]
Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>6.82 mg/l (rat)
Serious e In case of Based on during in	ye damage/ir longer exposu available data halation: Irrita	, the classification criteria are not met. ritation ure, slightly irritating effect to the eyes is possible. , the classification criteria are not met. Int effect possible.
Respirato Germ cell Carcinog Reproduc STOT-sin STOT-rep Aspiratio Other info Experimed The product the individ Subacute	ory or skin se I mutagenicity enicity Based ctive toxicity gle exposure peated expose n hazard Base ormation (abo ntal analysis a lict was not tes ual componer to chronic to	tant effect possible nsitisation Based on available data, the classification criteria are not met y Based on available data, the classification criteria are not met. on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification criteria are not met. Jare Based on available data, the classification c
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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

1312-76-1 Silicic acid, potassium salt NOEC

>1 mg/l (fish)

>1 mg/l (invertebrates)

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EC 50/48h	>100 mg/l (daphnia) (OECD 202)
EC 50/72 h	>100 mg/l (algae)
LC 50/96 h	>100 mg/l (fish) (DIN EN ISO 7346-2)
EC 0	>1,000 mg/l (activated sludge) (30min)
	ım dioxide [in powder form containing 1 % or more of particles with γnamic diameter ≤ 10 μm]
NOEC	≥100,000 mg/kg (sediment fresh water)
EC50	>100 mg/kg (freshwater alga) (OECD 201)
EC 50	>10,000 mg/l (algae) (ISO 10253)
LC 50	>10,000 mg/l (marine fish) (OECD 203)
	>1,000 mg/l (freshwater fish) (EPA-540/9-85-006)
	>1,000 mg/l (daphnia) (OECD 202)
1314-98-3 zinc sul	
EC 50/48h (static)	100 mg/l (daphnia) (OECD 202)
EC 50/96h (static)	100 mg/l (fish) (OECD 203)
EC 50/72 h (static)	100 mg/l (algae) (OECD 202)
 12.3 Bioaccumula 12.4 Mobility in sc 	and degradability No further relevant information available. tive potential No further relevant information available. bil No further relevant information available. 3T and vPvB assessment
 12.3 Bioaccumula 12.4 Mobility in so 12.5 Results of PE PBT: Not applicabl vPvB: Not applicate 12.6 Endocrine dis 	tive potential No further relevant information available. pil No further relevant information available. BT and vPvB assessment e ble srupting properties
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 12.3 Bioaccumula 12.4 Mobility in so 12.5 Results of PE PBT: Not applicabl vPvB: Not applicabl 12.6 Endocrine dia The product does r 12.7 Other advers Additional ecolog AOX-indication: Due to the substant take influence on the substant According to the substant 	tive potential No further relevant information available. bil No further relevant information available. BT and vPvB assessment e ble srupting properties not contain substances with endocrine disrupting properties. e effects ical information: the endocrine organic jointed halogens, the product can not be AOX-load of the waste water. formulation contains the following heavy metals and compounds from the
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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.

· 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.

SECTION 14: Transport information

 · 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: 	Νο
· 14.6 Special precautions for user	Not applicable
 14.7 Maritime transport in bulk accordin 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.

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· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

None of the ingredients is listed.

 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

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: BSW40
- · 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

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- · Department issuing SDS: KEIMFARBEN Germany, Product safety department
- · Version number of previous version: 12.0

• 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 AGW: Arbeitsplatzgrenzwert (Germany) EC10: Effective concentration at 10% mortality rate.



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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) Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Carc. 2: Carcinogenicity – Category 2

* Data compared to the previous version altered.