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

Printing date 21.02.2022 Version number 13.0 (replaces version 12.0) Revision: 21.02.2022

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

- · 1.1 Product identifier
- · Trade name: KEIM SOLDALIT-ME
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Sol-silicate paint with photocatalytic effect.
- · 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 silicic acid potassium salt, silica sol, acrylic polymer, mineral fillers, pigments, additives.

· Dangerous components:		
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 ≤ 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]  Carc. 2, H351 Nanoform: crystalline forms	≤2.5%
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; STOT SE 3, H335  Specific concentration limits: Skin Irrit. 2; H315: C ≥ 40 %  Eye Irrit. 2; H319: C ≥ 40 %  STOT SE 3; H335: C ≥ 40 %	≤2.5%

<sup>·</sup> 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:

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 mouth and throat well with water.

Do not induce vomiting; call for medical help immediately.

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• 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.

Cool endangered receptacles with water spray.

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.

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

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

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).

Dispose of the material collected according to regulations.

Clear contaminated areas thoroughly.

Flush rests with sufficient amount of water.

· 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.

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Do not inhale 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.

- · 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:

alveoles penetrating component

aerod	um dioxide [in powder form containing 1 % or more of particles with lynamic diameter ≤ 10 μm]
	Long-term value: 1.25* 10** mg/m³
, , , ,	2(II);*alveolengängig**einatembar; AGS, DFG, Y
14808-60-7 Quar	z (SiO2)
MAK (Germany)	alveolengängige Fraktion
1314-98-3 zinc si	ılphide
	Long-term value: 0.1A* 2E** mg/m³
	*alveolengängig; **einatembar

#### · DNELs

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

Inhalative Long-term - systemic effects 0.8 mg/m³ (worker)

#### ·PNECs

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

Aquatic compartment - freshwater	0.127 mg/l (freshwater)
Aquatic compartment - marine water	>1 mg/l (marine water)
Aquatic compartment - sediment in freshwater	>1,000 mg/kg sed dw (freshwater)

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Aguatic compartment - sediment in marine water >100 mg/kg sed dw (marine water)

- · 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.

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: P2

- Hand protection Protective gloves
- Material of gloves

suitable material e.g.:

Nitrile impregnated cotton-gloves

Recommended thickness of the material:  $\geq 0.5$  mm

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4$  mm

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.7 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 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.

### **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Physical state Fluid

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· **Colour:** Different, according to colouring.

Odour: Odourless
 Odour threshold: Not determined
 Melting point/freezing point: Not determined

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 ~11

· Viscosity:

Kinematic viscosity
 Dynamic at 20 °C:
 Not determined
 2.000-2.800\* mPas

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:
 Relative density
 Vapour density
 Not determined
 Not applicable.

• 9.2 Other information \* The values are for freshly produced material

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: Not applicableEvaporation rate Not applicable.

· Information with regard to physical hazard

classes

Explosives Void
Flammable gases Void
Aerosols Void
Oxidising gases Void
Gases under pressure Void

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· 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
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:

silicon dioxid (SiO2)

Carbon oxides (COx)

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/LC30	values leleval	nt for classification:
13463-67-		oxide [in powder form containing 1 % or more of particles with c diameter $\leq$ 10 $\mu$ m]
Inhalative	ATE mix (4h)	>5 mg/l (inhalative)
	ATE mix	>2,000 mg/kg (dermal)
		>2,000 mg/kg (orally)
	NOAEL	3,500 mg/kg /Oral (rat) (90d)

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1314-98-	3 zinc sulphid	e
Oral	LD50	>15,000 mg/kg (rat) (OECD 401)
13463-67	13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	
Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

- · 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 Based on available data, the classification criteria are not met.
- · 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.
- · 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.
- 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:

· Repeated dose toxicity	
13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq$ 10 $\mu m$	
Inhalative NOAEC 10 mg/m³ (rat) (90d)	

- · 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

	itanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]
NOEC	≥100,000 mg/kg (sediment fresh water) Hyalella azteca
EC50	>100 mg/kg (Freshwater algae) (OECD 201)
EC 50	>10,000 mg/l (algae) (ISO 10253)
LC 50	>10,000 mg/l (marine fish) (OECD 203)
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	>1,000 mg/l (freshwater fish) (EPA-540/9-85-006)	
	>1,000 mg/l (daphnia) (OECD 202)	
1314-98-3 zinc sul	phide	
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)	
	13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]	
ErC50/72h	>100 mg/l (algae)	
LC 50/96 h	>1,000 mg/l (Pimephales promelas)	

- · 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:

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 quideline NO. 2006/11/EC:

The product contains TiO2, BaSO4, ZnS.

**General notes:** 

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

At present there are no ecotoxicological assessments.

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

Water hazard class 1 (German Regulation) (Self-assessment): slightly 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.

#### · European waste catalogue

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

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

Void
Void
Void
Void
No
Not applicable
to Not applicable
No dangerous good in sense of these transportegulations.
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.
- · 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.

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· REGULATION (EU) 2019/1148

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 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.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug 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.

H335 May cause respiratory 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)

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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) Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

\* Data compared to the previous version altered.