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Safety Data Sheet according to WHS Regulations

Printing date 19.01.2023 Version number 13.0 (replaces version 12.0) Revision: 19.01.2023

SECTION 1: Identification

- · 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

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· **1.4 Emergency telephone number:** Emergency CONTACT Australia (24-Hour-Number):

GBK/Infotrac ID 91761: 1300 366 961

SECTION 2: Hazard(s) 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

- · 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 and Information on Ingredients

· 3.2 Mixtures

· Description:

Aqueous solution of silicic acid potassium salt, silica sol, acrylic polymer, mineral fillers, pigments, additives.

040, 40400 07 7	4:4:	0.5.400/
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	2.5-10%
Index number: 022-006-00-2 Reg.nr.: 01-2119486799-10- xxxx	♦ Carc. 2, H351	
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO2) substance with a Community workplace exposure limit	2.5-10%
CAS: 12001-26-2 EC number: 601-648-2	Mica substance with a Community workplace exposure limit	2.5-10%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]	≤2.5%
Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17- xxxx	& Carc. 2, H351 Nanoform: crystalline forms	
CAS: 1312-76-1 EINECS: 215-199-1 Reg.nr.: 01-2119456888-17- xxxx	Silicic acid, potassium salt ♦ Skin Irrit. 2, H315; 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%

· Additional information:

Route of exposure: Inhalation/contraction not given.

Alveolar particles (diameter \leq 10 µm) bound in the paint matrix.

This product contains <1 % respirable crystalline quartz.

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.

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· 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: Fire Fighting 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
- · Special 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 and 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.

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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.

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 and 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 \leq 10 $\mu m]$

WES Long-term value: 10 mg/m³

inhalable dust

14808-60-7 Quartz (SiO2)

WES Long-term value: 0.05 mg/m³

respirable dust

12001-26-2 Mica

WES Long-term value: 2.5 mg/m³

· DNELs

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

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

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· 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 (Seawater)

Aquatic compartment - sediment in freshwater >1,000 mg/kg sed dw (Freshwater) >100 mg/kg sed dw (Seawater)

- 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: ≥ 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 > 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

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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

· 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 applicable
 Upper: Not applicable
 Flash point: Not applicable
 Ignition temperature: Not determined
 Decomposition temperature: Not determined

pH at 20 °C ~11

· Viscosity:

Kinematic viscosityDynamic at 20 °C:Not determined2.000-2.800* 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.

and may change with the time.

· Appearance:

· Form: Fluid

· Important information on protection of health

and environment, and on safety.

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

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

Change in condition

· Softening point/range

Oxidising properties: Not applicable

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· Evaporation rate	Not applicable.
· 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
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.

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· LD/LC50	LD/LC50 values relevant for classification:			
13463-67-	13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]			
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)		
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 to	cicity
13463-67-		m dioxide [in powder form containing 1 % or more of particles with namic diameter \leq 10 μ 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.

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SECTION 12: Ecological Information

· 12.1 Toxicity

· Aquatic to	· Aquatic toxicity:		
13463-67-	7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 $\mu m]$		
NOEC	≥100,000 mg/kg (Freshwater sediment) 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)		
	>1,000 mg/l (freshwater fish) (EPA-540/9-85-006)		
	>1,000 mg/l (daphnia) (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 I	>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:

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

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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	n
· 14.1 UN number or ID number · ADG, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADG, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADG, IMDG, IATA · Class	Void
· 14.4 Packing group · ADG, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable
· 14.7 Maritime transport in bulk according IMO instruments	to 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

· Australian Inventory of Industrial Chemicals	
All ingredients are listed.	
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· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

Australia: Priority Existing Chemicals

None of the ingredients is listed.

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.

- · 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.

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
- · 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
- · 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

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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

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

Skin Irrit. 2: Skin corrosion/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.