



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

Printing date 05.05.2017

Version number 11

Revision: 05.05.2017

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

- **1.1 Product identifier**
- **Trade name: KEIM SOLDALIT-ARTE-GROB**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture**
Highly filled sol-silicate exterior priming paint for base and intermediate coats.
- **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
- **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 silicic acid potassium salt, silica sol, acrylic polymer, mineral fillers, pigments, additives.

(Contd. on page 2)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.05.2017

Version number 11

Revision: 05.05.2017

Trade name: KEIM SOLDALIT-ARTE-GROB

(Contd. of page 1)

· Dangerous components:

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%
---	--	--------

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.

· 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:

silicon dioxid (SiO₂)carbon oxide (CO_x)**· 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).

(Contd. on page 3)



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

Printing date 05.05.2017

Version number 11

Revision: 05.05.2017

Trade name: KEIM SOLDALIT-ARTE-GROB

(Contd. of page 2)

Ensure adequate ventilation

Avoid contact with skin and eyes.

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).

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.

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.

DEN

(Contd. on page 4)



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

Printing date 05.05.2017

Version number 11

Revision: 05.05.2017

Trade name: KEIM SOLDALIT-ARTE-GROB

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

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

14808-60-7 Quartz (SiO₂)

MAK (Germany) | alveolengängige Fraktion

1314-98-3 zinc sulphide

MAK (Germany) | Long-term value: 0.1A* 2E** mg/m³
*alveolengängig; **einatembar

· **DNELs**

1314-98-3 zinc sulphide

Inhalative | Acute - local effects, worker | 5 mg Zn/m³ (worker) (insoluble Zn)

· **PNECs**

1314-98-3 zinc sulphide

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
- PVC or PE gloves
- Recommended thickness of the material: ≥ 0.5 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

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.05.2017

Version number 11

Revision: 05.05.2017

Trade name: KEIM SOLDALIT-ARTE-GROB

(Contd. of page 4)

to be checked prior to the application.

· Penetration time of glove materialValue for the permeation: Level ≥ 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: Safety glasses**· Body protection:** Protective work clothing**· Limitation and supervision of exposure into the environment** See Section 12 and 6.2**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

Form:	Fluid
Colour:	Whitish
Odour:	Characteristic
Odour threshold:	Not determined.

· pH-value at 20 °C: ~11***· Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: ~100 °C

· Flash point: Not applicable.**· Flammability (solid, gas):** Not applicable.**· Ignition temperature:** Not determined.**· Decomposition temperature:** Not determined.**· Auto-ignition temperature:** Product is not selfigniting.**· Explosive properties:** 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:** 1.5-1.7* g/cm³**· Relative density** Not determined.**· Vapour density** Not applicable.**· Evaporation rate** Not applicable.

(Contd. on page 6)

DEN



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.05.2017

Version number 11

Revision: 05.05.2017

Trade name: KEIM SOLDALIT-ARTE-GROB

(Contd. of page 5)

- | | |
|--|--|
| · Solubility in / Miscibility with water: | miscible |
| · Partition coefficient: n-octanol/water: | Not applicable. |
| · Viscosity: | |
| Dynamic at 20 °C: | ~3100* mPas |
| Kinematic: | Not determined. |
| · 9.2 Other information | * 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:
silicon dioxid (SiO₂)
carbon oxide (CO_x)
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**

Oral	LD50	> 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** 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.
- **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.

(Contd. on page 7)

DEN



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.05.2017

Version number 11

Revision: 05.05.2017

Trade name: KEIM SOLDALIT-ARTE-GROB

(Contd. of page 6)

- **CMR effects (carcinogenicity, 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.
- **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, ZnS.
- **General notes:**
At present there are no ecotoxicological assessments.
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
- **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.

Must not be disposed with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

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

(Contd. on page 8)

DEN



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.05.2017

Version number 11

Revision: 05.05.2017

Trade name: KEIM SOLDALIT-ARTE-GROB

(Contd. of page 7)

- **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 · 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 Annex II of Marpol and the IBC Code	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:** BSW10
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

DEN

(Contd. on page 9)



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

Printing date 05.05.2017

Version number 11

Revision: 05.05.2017

Trade name: KEIM SOLDALIT-ARTE-GROB

(Contd. of page 8)

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

· **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

AGW: Arbeitsplatzgrenzwert (Germany)

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

· * **Data compared to the previous version altered.**

DEN