



KEIM SOLDALIT-ARTE Titanium Dioxide Free (KEIM SOLDALIT-ARTE)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date: 5/21/2025 Version: 1.0

SDS No: 0503-0149_US

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : KEIM SOLDALIT-ARTE Titanium Dioxide Free
(KEIM SOLDALIT-ARTE)

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : silicate paint for outdoors
Restrictions on use : All other uses are not recommended

1.4. Supplier's details

Manufacturer

KEIMFARBEN GmbH

Keimstraße 16

Diedorf, 86420

Germany

T +49 (0) 821 4802 - 0 - F +49 (0) 821 4802 210

www.keim.com - info@keimfarben.de

E-mail address of competent person responsible for the SDS: sds@gbk-ingelheim.de

1.5. Emergency phone number

Emergency number : +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. Label elements

GHS US labeling

No labeling applicable

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available



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2.4. Hazards not otherwise classified

Other hazards not contributing to the classification : Alkaline product. Avoid contact with skin, eyes and clothing.

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical characterization : Aqueous solution of silicic acid potassium salt, silica sol, acrylic polymer, mineral fillers, pigments, additives
This product contains <1 % respirable crystalline quartz.

| Name | Product identifier | % | GHS US classification |
|------------------------------|--------------------|------------|--|
| Zinc sulfide | CAS-No.: 1314-98-3 | 2.5 - ≤ 10 | Not classified |
| Silicic acid, potassium salt | CAS-No.: 1312-76-1 | ≤ 2.5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits (%) |
|------------------------------|--------------------|---|
| Silicic acid, potassium salt | CAS-No.: 1312-76-1 | (40 ≤ C ≤ 100) Eye Irrit. 2; H319 (40 ≤ C ≤ 100) Skin Irrit. 2; H315 (40 ≤ C ≤ 100) STOT SE 3; H335 |

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : No specific measures are necessary.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Ensure of fresh air. Consult a doctor/medical service if you feel unwell.
First-aid measures after skin contact : Wash off immediately with soap and plenty of water. Do not use solvents or thinners. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Call a doctor.
First-aid measures after ingestion : Rinse out mouth thoroughly with water. Do not induce vomiting. Get medical advice/attention.



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4.2. Most important symptoms/effects, acute and delayed

No additional information available

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Product itself does not burn. Fire-extinguishing activities according to surrounding.
Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Silicon dioxide.

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Appropriate self-contained breathing apparatus may be required.
Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Contain the extinguishing fluids by bunding. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information : Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. In case of fire and/or explosion do not breathe fumes.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. Ensure adequate air ventilation. Avoid contact with skin and eyes. Spilled material may present a slipping hazard.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.
Environmental precautions : Avoid release to the environment. Stop leaks if it can be done without personal risk. Dilute with plenty of water. Do not allow to enter drains or water courses.



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6.2. Methods and materials for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ensure adequate ventilation. Dispose of in accordance with relevant local regulations. Clean contaminated surface thoroughly. Wash away remainder with plenty of water. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

Refer to protective measures listed in Sections 7 and 8, Information for disposal see section 13, For further information refer to section 8: "Exposure controls/personal protection", For further information refer to section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|--|
| Precautions for safe handling | : Wear personal protective equipment. Keep container tightly closed. Avoid contact with skin and eyes. Ensure good ventilation of the work station. Concerning personal protective equipment to use, see item 8. Do not breathe aerosol. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including incompatibilities

| | |
|------------------------------|---|
| Technical measures | : Keep in a cool, well-ventilated place away from heat. |
| Storage conditions | : Keep only in original container. Keep cool. Store in a dry place. Keep away from heat and direct sunlight. Keep out of frost. |
| Incompatible materials | : Acids. |
| Information on mixed storage | : Keep away from food, drink and animal feeding stuffs. |
| Specific end uses | : See Heading 1. |
| Packaging materials | : Store always product in container of same material as original container. |

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

| | |
|----------------------------------|---|
| Appropriate engineering controls | : Avoid contact with skin and eyes. Do not breathe aerosol. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Immediately remove contaminated clothing or footwear. Ensure good ventilation of the work station. |
| Environmental exposure controls | : Avoid release to the environment. |



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8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Breakthrough time of the glove material: The exact break through time has to be requested from the protective glove manufacturer and must be observed.

| Type | Material | Permeation | Thickness (mm) | Penetration |
|-------------------|--|-------------------|----------------|-------------|
| protective gloves | Nitrile impregnated cotton gloves, Polyvinylchloride (PVC), Polyethylene | 6 (> 480 minutes) | ≥0.5 | |
| protective gloves | butyl rubber | 6 (> 480 minutes) | ≥0.7 | |

Eye protection:

Safety goggles recommended during refilling. Protective goggles (EN 166)

Skin and body protection:

Protection clothes

Respiratory protection:

Breathing apparatus in the event of aerosol or mist formation

| Device | Filter type | Condition |
|---------------------|------------------|-----------|
| Breathing equipment | Filter P (white) | |

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

| | |
|--------------------------------|---|
| Physical state | : Liquid |
| Color | : Various, depending on coloration |
| Odor | : characteristic |
| Odor threshold | : No data available |
| pH | : ≈ 11 at 20°C; The values are for freshly produced material and may change with the time |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : Not applicable |
| Flammability (solid, gas) | : No data available. |
| Vapor pressure | : ≈ 23 hPa at 20°C |
| Relative vapor density at 20°C | : No data available |
| Relative density | : No data available |



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| | |
|---------------------------|--|
| Density | : 1.4 – 1.6 g/cm ³ at 20°C; The values are for freshly produced material and may change with the time |
| Solubility | : Water: Miscible |
| Log Pow | : No data available |
| Auto-ignition temperature | : Not self-igniting |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 900 – 1500 mPa·s at 20°C; The values are for freshly produced material and may change with the time |
| Explosion limits | : No data available |
| Explosive properties | : Product is not explosive. |
| Particle characteristics | : No data available |

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

No decomposition if stored normally. Fire may produce: Carbon oxides (CO, CO₂). Silicon dioxide.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|--|
| Acute toxicity (oral) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |
| Skin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: ≈ 11 at 20°C; The values are for freshly produced material and may change with the time |



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| | |
|-----------------------------------|--|
| Serious eye damage/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: ≈ 11 at 20°C; The values are for freshly produced material and may change with the time |
| Respiratory or skin sensitization | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |
| Other information | : The product has not been tested. The information is derived from the properties of the individual components. |

SECTION 12 Ecological information

12.1. Ecotoxicity

| | |
|---|--|
| Ecology - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified (Based on available data, the classification criteria are not met) |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met) |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

| | |
|------------------------------|---|
| Ozone | : Not classified (Based on available data, the classification criteria are not met) |
| Fluorinated greenhouse gases | : No |
| Other information | : Product does not contain any organic bound halogens which could lead to AOX-values. |

SECTION 13 Disposal considerations

| | |
|---------------------------|---|
| Regional waste regulation | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |



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Product/Packaging disposal recommendations : Dispose of contents/container to in accordance with local and national regulations. Do not dispose of with domestic waste. Do not discharge into drains. Packaging that is not properly emptied must be disposed of as the unused product.

Additional information : Recommended cleaning agent: Water with detergents.

SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

| DOT | IMDG | IATA |
|---|---------------|---------------|
| 14.1. UN number | | |
| Not regulated for transport | | |
| 14.2. Proper Shipping Name | | |
| Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | |
| Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | |
| Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | |
| Not regulated | Not regulated | Not regulated |
| No supplementary information available | | |

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated



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SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

No additional information available

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date

: 5/21/2025

Other information

: Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

Full text of H-phrases

| | |
|------|----------------------------------|
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

Abbreviations and acronyms

| | |
|-------|---|
| ACGIH | American Conference of Government Industrial Hygienists |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| OEL | Occupational Exposure Limit |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |



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| Abbreviations and acronyms | |
|----------------------------|--|
| CAS-No. | Chemical Abstract Service number |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| COD | Chemical oxygen demand (COD) |
| CSA | Chemical safety assessment |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| ED | Endocrine disruptor |
| EN | European Standard |
| EWC | European waste catalogue |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| Log Kow | Partition coefficient n-octanol/water (Log Kow) |
| Log Pow | Partition coefficient n-octanol/water (Log Pow) |
| MAK | maximum workplace concentration |
| N.O.S. | Not Otherwise Specified |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organization for Economic Co-operation and Development |
| OSHA | Occupational Safety & Health Administration |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| PPE | Personal protection equipment |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |



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| Abbreviations and acronyms | |
|----------------------------|---|
| STP | Sewage treatment plant |
| TF | Technical function |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| TWA | Time Weighted Average |
| UFI | Unique Formula Identifier |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and Very Bioaccumulative |
| ADG | Transport of Australian Dangerous Goods |
| DOT | Department of Transport |
| GHS | Globally Harmonized System of Classification, Labelling and Packaging of Chemicals |
| IBC-Code | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| MARPOL 73/78 | MARPOL 73/78: International Convention for the Prevention of Pollution From Ships |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| TDG | Transportation of Dangerous Goods |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.