



## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 08.11.2024

Version number 1.0

Revision: 08.11.2024

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

- **1.1 Product identifier**
- **Trade name:** **KEIM INNOPRIM**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture**  
White pigmented primer for interior use on a sol-silicate basis.
- **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

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Aqueous solution of silica sol, acrylic polymer, mineral fillers, pigments, additives.

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**· Dangerous components:**

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  $\leq 10 \mu\text{m}$ ]

2.5-10%

Carc. 2, H351

**· Additional information:**

Route of exposure: Inhalation/contraction not given.

Alveolar particles (diameter  $\leq 10 \mu\text{m}$ ) 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:** 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:

carbon oxide (COx)

**· 5.3 Advice for firefighters****· Special protective equipment:** Wear self-contained respiratory protective device.**· Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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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

- Avoid contact with skin and eyes.
- Ensure adequate ventilation
- Respect the protection rules (see section 7 and 8).
- 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.
- 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.
- Ensure good ventilation/exhaustion at the workplace.
- 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: Do not store together with acids.

##### · Further information about storage conditions:

- Store in a cool place.
- Protect from frost.
- Protect from heat and direct sunlight.

##### · Storage class: 12

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- **GISCode** BSW10 Beschichtungsstoffe, wasserbasiert, konservierungsmittelarm
- **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  $\leq 10 \mu\text{m}$ ]**

AGW (Germany)	Long-term value: $1.25 \cdot 10^{**} \text{ mg/m}^3$ 2(II);*alveolengängig**einatembar; AGS, DFG, Y
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- **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: P

##### · **Hand protection** Protective gloves

##### · **Material of gloves**

suitable material e.g.:

Nitrile impregnated cotton-gloves

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.5 \text{ mm}$

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4 \text{ mm}$

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

##### · **Eye/face protection**

Goggles recommended during refilling

Tightly sealed goggles

##### · **Body protection:** Protective work clothing

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- **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
· Colour:	White
· 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
· Auto-ignition temperature:	Not determined
· Decomposition temperature:	Not determined
· pH at 20 °C	~11
· Viscosity:	
· Kinematic viscosity	Not determined
· Dynamic at 20 °C:	1.600-2.600* mPas
· Solubility	
· water:	Miscible
· Partition coefficient n-octanol/water (log value)	Not applicable
· Vapour pressure at 20 °C:	23 hPa (7732-18-5 Water)
· Density and/or relative density	
· Density at 20 °C:	1.4-1.5* g/cm <sup>3</sup>
· Relative density	Not determined
· Vapour density	Not applicable.

#### · 9.2 Other information

- **Appearance:**
- **Form:** Pasty
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.

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- **Change in condition**
- **Softening point/range**
- **Oxidising properties:** Not applicable
- **Evaporation rate** Not applicable.

- **Information with regard to physical hazard 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

### 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:**  
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 values relevant for classification:****13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]**

Oral	LD50	>5,000 mg/kg (rat) (OECD 425)
Dermal	ATE	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>6.82 mg/l (rat) (Dust / Fog)

**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.

- **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  $\leq 10 \mu\text{m}$ ]**

Oral	NOAEL	962 mg/kg /90D (rat) (OECD 408) 24,000 mg/kg /28D (rat) (OECD 407)
	LOAEL	>962 mg/kg /90D (rat) (OECD 408) >24,000 mg/kg /28D (rat) (OECD 407)
Inhalative	NOAEL	0.01 mg/l /2Y (rat) (Dust / Fog) OECD 453
	LOAEL	0.5 mg/l /2Y (rat) (Dust / Fog) OECD 453

- **CMR effects (carcinogenicity, 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 toxicity:

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

NOEC	>1,000 mg/l /21d (daphnia)
NOEC	5,600 mg/kg /72h (Algae) (ISO 10253) >100 mg/kg /3d (algae) (OECD 201)
EC 50/48h	>1,000 mg/l (daphnia) (OECD 202)
EC 50/72 h	>10,000 mg/l (algae) (ISO 10253)
ErC50	>100 mg/l /72h (algae) (OECD 201)
LC 50/96 h	>1,000 mg/l (fish) (OECD 203) >10,000 mg/l (marine fish) (OECD 203)

##### · 12.2 Persistence and degradability

 No further relevant information available.

##### · Other information:

Elimination in biological waste water treatment plants is effected by flocculation, precipitation and adsorption on sewage sludge.

##### · 12.3 Bioaccumulative potential

 No further relevant information available.

##### · Bioconcentration factor (BCF)

13463-67-7	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]	352
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##### · 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

- Other information: Pretreat waste water with help of precipitation.

##### · 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 TiO<sub>2</sub>.

##### · General notes:

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

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

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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:** No

· **14.6 Special precautions for user**

Not applicable

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable

· **Transport/Additional information:**

No dangerous good in sense of these transport regulations.

· **UN "Model Regulation":**

Void

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### 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.

· <b>LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)</b>
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None of the ingredients is listed.
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- |   |
|---|
| · <b>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</b> |
|---|

None of the ingredients is listed.
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- |                                    |
|------------------------------------|
| · <b>REGULATION (EU) 2019/1148</b> |
|------------------------------------|

- |   |
|---|
| · <b>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</b> |
|---|

Not relevant.
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- |   |
|---|
| · <b>ANNEX I EXPORT SUBSTANCES DECLARABLE FOR EXPLOSIVES in quantities &gt; 1%.</b> |
|---|

None of the ingredients is listed.
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- |  |
|--|
| · <b>Annex II - REPORTABLE EXPLOSIVES PRECURSORS</b> |
|--|

None of the ingredients is listed.
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- |   |
|---|
| · <b>Regulation (EC) No 273/2004 on drug precursors</b> |
|---|

None of the ingredients is listed.
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- |   |
|---|
| · <b>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</b> |
|---|

None of the ingredients is listed.
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- **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.

### 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**  
H351 Suspected of causing cancer.
- **Department issuing SDS:** KEIMFARBEN Germany, Product safety department

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**Abbreviations and acronyms:**

BOELV: Binding Occupational Exposure Limit Values

IOELV : Indicative Occupational Exposure Limit Values

OELV: Occupational Exposure Limit Value

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)

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.

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)

Carc. 2: Carcinogenicity – Category 2

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