

Page 1/10

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

Printing date 06.07.2021

Version number 4.1 (replaces version 4.0)

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

- · 1.1 Product identifier
- · Trade name: KEIM VERAMIN
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture

silicate paint for outdoor use silicate paint for indoor use

- · 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

DEN

(Contd. on page 2)

Revision: 06.07.2021



Page 2/10

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

Printing date 06.07.2021 Version number 4.1 (replaces version 4.0) Revision: 06.07.2021

Trade name: KEIM VERAMIN

(Contd. of page 1)

# **SECTION 3: Composition/information on ingredients**

- · 3.2 Mixtures
- · Description: Silicate-based paint with light resistant, inorganic pigments and mineral fillers.

## · 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 2.5-10%] of particles with aerodynamic diameter ≤ 10 µm]

Carc. 2. H351

· 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: 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

No further relevant information available.

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

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

(Contd. on page 3)



Page 3/10

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

Printing date 06.07.2021 Version number 4.1 (replaces version 4.0) Revision: 06.07.2021

**Trade name: KEIM VERAMIN** 

In case of fire do not breathe smoke, fumes and vapours.

(Contd. of page 2)

### **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.

### 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: Not required.
- · Further information about storage conditions:

Store in a cool place.

Protect from frost.

Protect from heat and direct sunlight.

· Storage class: 12

(Contd. on page 4)



Page 4/10

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

Printing date 06.07.2021 Version number 4.1 (replaces version 4.0) Revision: 06.07.2021

Trade name: KEIM VERAMIN

(Contd. of page 3)

· 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  $\mu m]$ 

AGW (Germany) Long-term value: 1.25\* 10\*\* mg/m<sup>3</sup>

2(II);\*alveolengängig\*\*einatembar; AGS, DFG

· 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

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

Nitrile rubber, NBR

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

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.7 \ mm$ 

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 Goggles recommended during refilling
- · Body protection: Protective work clothing
- · Environmental exposure controls

See Section 12 and 6.2

(Contd. on page 5)



Page 5/10

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

Printing date 06.07.2021 Version number 4.1 (replaces version 4.0) Revision: 06.07.2021

**Trade name: KEIM VERAMIN** 

No further relevant information available.

(Contd. of page 4)

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

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour: Different, according to colouring.

Odour:
 Odour threshold:
 Melting point/freezing point:
 Odourless
 Not determined
 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
 1400-1700\* mPas

· Solubility

· water: 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: Pasty

· 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 applicable

(Contd. on page 6)



Page 6/10

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

Printing date 06.07.2021 Version number 4.1 (replaces version 4.0) Revision: 06.07.2021

Trade name: KEIM VERAMIN

		(Contd. of page 5
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	

# **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.
- · LD/LC50 values relevant for classification:

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 (inhalation)
ATE mix >2,000 mg/kg (dermal)

(Contd. on page 7)



Page 7/10

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

Printing date 06.07.2021 Version number 4.1 (replaces version 4.0) Revision: 06.07.2021

Trade name: KEIM VERAMIN

	(Contd. of pa	ige 6)
	>2,000 mg/kg (orally)	
NOAEL	3,500 mg/kg /Oral (rat) (90d)	

- Skin corrosion/irritation Frequent persistent contact with the skin may cause skin irritation.
- · Serious eye damage/irritation

In case of longer exposure, slightly irritating effect to the eyes 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 ≤ 10 μm]

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

# · 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 (sediment fresh water)
EC50 >100 mg/kg (freshwater alga) (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)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.

(Contd. on page 8)



Page 8/10

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

Printing date 06.07.2021 Version number 4.1 (replaces version 4.0) Revision: 06.07.2021

**Trade name: KEIM VERAMIN** 

(Contd. of page 7)

- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable · **vPvB:** Not applicable
- 10.0 Final and 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 guideline NO. 2006/11/EC:

The product contains TiO2.

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

# **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

- 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

(Contd. on page 9)



Page 9/10

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

Printing date 06.07.2021 Version number 4.1 (replaces version 4.0) Revision: 06.07.2021

Trade name: KEIM VERAMIN

	(Contd. of page 8
· 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

# **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.

- · 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.

- · 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



Page 10/10

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

Printing date 06.07.2021 Version number 4.1 (replaces version 4.0) Revision: 06.07.2021

Trade name: KEIM VERAMIN

(Contd. of page 9)

# **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
- · Version number of previous version: 4.0
- · 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)

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

\* Data compared to the previous version altered.

DEN