

Page 1/11

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

Printing date 14.06.2021

Version number 13.0 (replaces version 12.0)

Revision: 14.06.2021

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

1.1 Product identifier

- · Trade name: KEIM AQUAROYAL-COLOR
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture Sol-silicate paint for use on exterior walls.
- · 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

(Contd. on page 2)



Page 2/11

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

Printing date 14.06.2021

Version number 13.0 (replaces version 12.0)

Revision: 14.06.2021

Trade name: KEIM AQUAROYAL-COLOR

(Contd. of page 1)

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.

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 of particles with aerodynamic diameter \leq 10 µm] Carc. 2, H351	10-25%
CAS: 1314-98-3 EINECS: 215-251-3 Reg.nr.: 01-2119475779-15- xxxx	zinc sulphide substance with a Community workplace exposure limit	2.5-10%
CAS: 1312-76-1 EINECS: 215-199-1 Reg.nr.: 01-2119456888-17- xxxx	Silicic acid, potassium salt \bigcirc Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335Specific concentration limits: Skin Irrit. 2; H315: C \geq 40 % Eye Irrit. 2; H319: C \geq 40 % STOT SE 3; H335: C \geq 40 %	≤2.5%

• 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:

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.

(Contd. on page 3)

DEN



Page 3/11

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

Printing date 14.06.2021

Version number 13.0 (replaces version 12.0)

Revision: 14.06.2021

Trade name: KEIM AQUAROYAL-COLOR

(Contd. of page 2)

• **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 (COx)
- 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. 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). 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.

(Contd. on page 4)



Page 4/11

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

Printing date 14.06.2021 Ver

Version number 13.0 (replaces version 12.0)

Revision: 14.06.2021

Trade name: KEIM AQUAROYAL-COLOR

(Contd. of page 3) 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: Protect from frost. Protect from heat and direct sunlight. Store in cool, dry conditions in well sealed receptacles. · Storage class: 12 · 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	1
aerodynamic diameter ≤ 10 µm]	

AGW (Germany) Long-term value: 1.25* 10** mg/m³

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

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

• 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

(Contd. on page 5)

DEN



Page 5/11

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

Version number 13.0 (replaces version 12.0) Printing date 14.06.2021

Revision: 14.06.2021

Trade name: KEIM AQUAROYAL-COLOR

(Contd. of page 4)

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 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 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 No further relevant information available.

SECTION 9: Physical and chemical properties

General Information Colour:	Different, according to colouring.
Odour:	Odourless
• • • • • • • • • • • • • • • • • • • •	
Odour threshold:	Not determined
Melting point/freezing point:	Not determined
Boiling point or initial boiling point a	and
boiling range	Not determined
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	Not applicable
Upper:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined
pH at 20 °C	~11*
Viscosity:	
Kinematic viscosity	Not determined
Dynamic at 20 °C:	900-1300* mPas



Page 6/11

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

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Version number 13.0 (replaces version 12.0)

Revision: 14.06.2021

Trade name: KEIM AQUAROYAL-COLOR

· Solubility	
· water:	Miscible
· Partition coefficient n-octanol/water (log	MISCIDIE
value)	Not applicable
· Vapour pressure at 20 °C:	~23 hPa
· Density and/or relative density	~23 IF a
· Density at 20 °C:	1.5-1.7* g/cm³
· Relative density	Not determined
· Vapour density	Not applicable.
• 9.2 Other information	* The values are for freshly produced mater
_	and may change with the time.
· Appearance:	
Form:	Fluid
Important information on protection of hea	alth
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
· 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

(Contd. on page 7)



Page 7/11

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

Printing date 14.06.2021

Version number 13.0 (replaces version 12.0)

Revision: 14.06.2021

Trade name: KEIM AQUAROYAL-COLOR

(Contd. of page 6)

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.

· 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 μm]

Inhalative	ATE mix (4h)	>5 mg/l (inhalation)
	ATE mix	>2,000 mg/kg (dermal)
		>2,000 mg/kg (orally)
	NOAEL	3,500 mg/kg /Oral (rat) (90d)

1314-98-3 zinc sulphide

Oral LD50 >15,000 mg/kg (rat) (OECD 401)

· 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.
- \cdot 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.

(Contd. on page 8)

⁻ DEN



Page 8/11

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

Printing date 14.06.2021 V

Version number 13.0 (replaces version 12.0)

Revision: 14.06.2021

Trade name: KEIM AQUAROYAL-COLOR

(Contd. of page 7)

· 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 μm]

Inhalative NOAEC 10 mg/m³ (rat) (90d)

 \cdot 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	4 0/ on more of norticles with
13463-67-7 TITANIUM GIOXIGE IIN DOWDER TORM CONTAINING	1 1 % or more of particles with 1
aerodynamic diameter ≤ 10 μm]	

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)	
1314-98-3 zi	inc sulphide	

1314-98-3 zinc sulphide

EC 50/48h (static) 100 mg/l (daphnia) (OECD 202)

EC 50/96h (static) 100 mg/l (fish) (OECD 203)

EC 50/72 h (static) 100 mg/l (algae) (OECD 202)

• **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 guideline NO. 2006/11/EC:

The product contains BaSO4, TiO2, ZnS.

(Contd. on page 9)

⁻ DEN



Page 9/11

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

Printing date 14.06.2021

Version number 13.0 (replaces version 12.0)

Revision: 14.06.2021

(Contd. of page 8)

Trade name: KEIM AQUAROYAL-COLOR

· 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
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable
 14.7 Maritime transport in bulk accordin IMO instruments 	n g to Not applicable
· Transport/Additional information:	No dangerous good in sense of these transport regulations.
· UN "Model Regulation":	Void

(Contd. on page 10)



Page 10/11

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

Printing date 14.06.2021

Version number 13.0 (replaces version 12.0)

Revision: 14.06.2021

Trade name: KEIM AQUAROYAL-COLOR

(Contd. of page 9)

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: BSW40
- 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

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

H351 Suspected of causing cancer.

· 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

(Contd. on page 11)



Page 11/11

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

Printing date 14.06.2021

Version number 13.0 (replaces version 12.0)

Revision: 14.06.2021

Trade name: KEIM AQUAROYAL-COLOR

	(Contd. of page
EINECS: European Inventory of Existing Commercial Chemical S	ubstances
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chem	
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for I	Jangerous 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)
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Carc. 2: Carcinogenicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) - Cat	egory 3
* Data compared to the previous version altered.	5 <i>7</i>