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

Printing date 10.05.2023

Version number 13.0 (replaces version 12.0)

Revision: 10.05.2023

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

1.1 Product identifier

- · Trade name: KEIM RESTAURO-LASUR
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture Thin layer paint / glaze, sol-silicate-based
- · 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: Mineral fillers, potassium water glass, silica sol, acrylate dispersion

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ning 1 % or more 2.5-10% ≤ 10 µm]
<u>≤ 10 μm]</u>
≤2.5%
; STOT SE 3,
9;

litional information

Route of exposure: Inhalation/contraction not given.

Alveolar particles (diameter $\leq 10 \ \mu m$) bound in the paint matrix.

This product contains <1 % respirable crystalline guartz.

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 eve 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.

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- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- · 5.3 Advice for firefighters
- Special protective equipment: Wear self-contained respiratory protective device.
- · Additional information

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

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

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Respect the protection rules (see section 7 and 8). Avoid contact with skin and eyes. Ensure adequate ventilation
 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.
 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 (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:** 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: Store in cool, dry conditions in well sealed receptacles. Protect from frost.

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Protect from heat and direct sunlight.

- · Storage class: 12
- · GISCode BSW40 Beschichtungsstoffe, wasserbasiert, alkalisch
- · 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 µm]

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

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

14808-60-7 Quartz (SiO2)

MAK (Germany) alveolengängige Fraktion

• 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

- Natural rubber, NR
- Recommended thickness of the material: ≥ 0.6 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 Safety glasses

· 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 chem	ical properties
· General Information	
Physical state	Fluid
· Colour:	Different, according to colouring.
· Odour:	Odourless
 Melting point/freezing point: 	~0 °C
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:	>100 °C
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
pH at 20 °C	11.2*
· Viscosity:	
· Kinematic viscosity	Not determined
· Dynamic at 20 °C:	250-600* 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	20111 4
· Density at 20 °C:	1.1-1.3* g/cm³
· Relative density	Not determined
· Vapour density	Not applicable.
• 9.2 Other information	* The values are for freshly produced material
	and may change with the time.
· Appearance:	
Form:	Fluid
Important information on protection of heal	:h
and environment, and on safety.	
 Auto-ignition temperature: 	Product is not selfigniting.
 Explosive properties: 	Product does not present an explosion hazard.
Change in condition	
Softening point/range	
 Oxidising properties: 	Not applicable
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Evaporation rate	Not applicable.	
Information with regard to physical haz		
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 \leq 10 µm]

Inhalative ATE mix (4h) >5 mg/l (inhalati	ve)
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ATE mix >2,000 mg/kg (dermal)

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	NOAEL	3,500 mg/kg (Oral) (90d)
01.1		
		tion Frequent persistent contact with the skin may cause skin irritation.
	eye damage	
In case of	of longer expo	osure, slightly irritating effect to the eyes is possible.
		ritant effect possible.
		Irritant effect possible
		sensitisation Based on available data, the classification criteria are not met.
		city Based on available data, the classification criteria are not met. ed on available data, the classification criteria are not met.
		by Based on available data, the classification criteria are not met.
		Ire Based on available data, the classification criteria are not met.
		Distribution Survey and the classification criteria are not met.
		ased on available data, the classification criteria are not met.
		bout experimental toxicology):
		s are not available.
		tested. The statements on toxicology have been derived from the properties
	iuuai compon	ients.
	idual compon t e to chronic	
· Subacut		toxicity:
 Subacut Repeate 	te to chronic d dose toxic 7-7 titanium	: toxicity: city dioxide [in powder form containing 1 % or more of particles with
 Subacut Repeate 	te to chronic d dose toxic 7-7 titanium	; toxicity: ;ity
 Subacut Repeate 13463-67 	te to chronic d dose toxic 7-7 titanium aerodyna	: toxicity: city dioxide [in powder form containing 1 % or more of particles with
 Subacut Repeate 13463-67 Inhalative 	te to chronic d dose toxic 7-7 titanium aerodyna e NOAEC 1	a toxicity: city dioxide [in powder form containing 1 % or more of particles with amic diameter ≤ 10 μm] 0 mg/m³ (rat) (90d)
 Subacut Repeate 13463-67 Inhalative CMR effettion 	e to chronic d dose toxic 7-7 titanium aerodyna e NOAEC 1 ects (carcine	e toxicity: city dioxide [in powder form containing 1 % or more of particles with amic diameter ≤ 10 μm]
 Subacut Repeate 13463-67 Inhalative CMR effection 11.2 Info 	te to chronic d dose toxic 7-7 titanium aerodyna e NOAEC 1 ects (carcine ormation on	a toxicity: city dioxide [in powder form containing 1 % or more of particles with amic diameter ≤ 10 μm] 0 mg/m³ (rat) (90d) ogenity, mutagenicity and toxicity for reproduction) Not applicable

SECTION 12: Ecological information

12.1 Toxicity

*

· Aquati	c toxicity:
13463-	67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 μm]
NOEC	≥100,000 mg/kg (Freshwater sediment) Hyalella azteca
EC50	>100 mg/kg (Freshwater algae) (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 Pe	ersistence and degradability No further relevant information available.

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	Bioaccumulative potential No further relevant information available.
	Mobility in soil No further relevant information available.
	Results of PBT and vPvB assessment
	Not applicable
	B: Not applicable
	Endocrine disrupting properties product does not contain substances with endocrine disrupting properties.
	Other adverse effects
	tional ecological information:
	indication:
	to the substance of content which do not include organic jointed halogens, the product can r
	Influence on the AOX-load of the waste water.
· Acco	rding to the formulation contains the following heavy metals and compounds from t
	uideline NO. 2006/11/EC:
	product contains TiO2.
	eral notes:
	esent there are no ecotoxicological assessments.
	statements on ecotoxicology have been derived from the properties of the individu
	onents. r hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
	ot allow product to reach ground water, water course or sewage system.
SEC	TION 13: Disposal considerations
	Waste treatment methods
	mmendation
	not be disposed with household garbage. Do not allow product to reach sewage system. osal must be made according to official regulations.
· ·	pean waste catalogue
	· •
08 01	12 waste paint and varnish other than those mentioned in 08 01 11
· Uncl	eaned packaging:
	mmendation: Disposal must be made according to official regulations.
· Reco	mmended cleansing agents: Water, if necessary with cleansing agents.
· Reco	mmended cleansing agents: Water, if necessary with cleansing agents.

· 14.1 UN number or ID number · ADR, IMDG, IATA

Void

14.2 UN proper shipping name
 ADR, IMDG, IATA

Void

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· 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 accordi	ng 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
- · Regulation (EC) No 273/2004 on drug precursors
- None of the ingredients is listed.
 - Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug 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

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(Contd. of page 9) • **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

Thi	s information is based on our present knowledge. However, this shall not constitute a guarar
for	any specific product features and shall not establish a legally valid contractual relationship.
	evant phrases
-	15 Causes skin irritation.
	19 Causes serious eye irritation.
	35 May cause respiratory irritation.
H35	51 Suspected of causing cancer.
	partment issuing SDS: KEIMFARBEN Germany, Product safety department
Ver	sion number of previous version: 12.0
	breviations and acronyms:
	R: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concer
	nternational Carriage of Dangerous Goods by Road) G: International Maritime Code for Dangerous Goods
	A: International Air Transport Association
	5: Globally Harmonised System of Classification and Labelling of Chemicals
	ECS: European Inventory of Existing Commercial Chemical Substances
	NCS: European List of Notified Chemical Substances
	S: Chemical Abstracts Service (division of the American Chemical Society) S: Technische Regeln f ür Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
	0: Lethal concentration, 50 percent
	0: Lethal dose, 50 percent
	: Persistent, Bioaccumulative and Toxic
	IC: Substances of Very High Concern
	B: very Persistent and very Bioaccumulative
	V: Arbeitsplatzgrenzwert (Germany) 0: Effective concentration at 10% mortality rate.
	0: Half maximal effective concentration.
	0: Lethal concentration at 10% mortality rate.
	EC: No observed effect concentration.
	CH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)
	Irrit. 2: Skin corrosion/irritation – Category 2
	Irrit. 2: Serious eye damage/eye irritation – Category 2 c. 2: Carcinogenicity – Category 2
	TSE 3: Specific target organ toxicity (single exposure) – Category 3
	ata compared to the previous version altered.