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

Printing date 21.04.2023 Version number 12.0 (replaces version 11.0) Revision: 21.04.2023

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

- · 1.1 Product identifier
- · Trade name: KEIM REVERFIX
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Fixing agent and thinner/diluent for KEIM-REVERSIL.
- · 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
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable · **vPvB**: Not applicable

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

- · 3.2 Mixtures
- · **Description:** Aqueous dispersion of polyurethan.
- · Dangerous components: Void
- · Additional information: For the wording of the listed hazard phrases refer to section 16.

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#### **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 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: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

carbon oxide (COx)

Nitrogen oxides (NOx)

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

The product itself is not inflammable. The remaining polymer after ablating of the aqueous phase is flammable.

Cool endangered receptacles with water spray.

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

Ensure adequate ventilation

Avoid contact with skin and eyes.

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.

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#### · 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.

See item 8 (8.2) for information about suitable protective equipment and technical precautions. Respect the protection rules.

- · Information about fire and explosion protection: 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.

Suitable material for receptacles and pipes:

Stainless steel

Polyethylene

- Information about storage in one common storage facility: Do not store together with acids.
- · Further information about storage conditions:

Store receptacle in a well ventilated area.

Store in a cool place.

Protect from frost.

Protect from heat and direct sunlight.

- · Storage class: 12
- · 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists valid during the making were used as basis.

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- · 8.2 Exposure controls
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Avoid contact with the eves 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.

Combination filter A/P

- · Hand protection Protective gloves
- · Material of gloves

suitable material e.g.:

Nitrile impregnated cotton-gloves

Butyl rubber, BR

Recommended thickness of the material: > 0.5 mm

PVC or PE gloves

Recommended thickness of the material: ≥ 0.5 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**

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Fluid · Colour: Fluid

Odour: Characteristic
 Odour threshold: Not determined
 Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

boiling range ~100 °C

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	(Cantal of non-	
Flommobility	(Contd. of page	
Flammability	Not applicable	
Lower and upper explosion limit	Not emplicable	
Lower:	Not applicable	
Upper:	Not applicable	
Flash point:	Not applicable	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
pH at 20 °C	~8*	
Viscosity:		
Kinematic viscosity	Not determined	
Dynamic:	Not determined.	
Solubility		
water:	Fully miscible	
Partition coefficient n-octanol/water (log	•	
value)	Not applicable	
Vapour pressure at 20 °C:	~23 hPa	
Density and/or relative density	20 111 4	
Density at 20 °C:	1.0-1.1* g/cm³	
Relative density	Not determined	
Vapour density		
<u> </u>	Not applicable.	
9.2 Other information	* The values are for freshly produced materi	
	and may change with the time.	
Appearance:		
Form:	Fluid	
Important information on protection of hea	alth	
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	
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	
	Void	
Pyrophoric liquids		
Pyrophoric solids	Void	

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Void	
	Void Void Void Void 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:

In case of fire, the following can be released:

Carbon oxides (COx)

Nitrogen oxides (NOx)

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.
- 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:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Not applicable

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· 11.2 Information on other hazards

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· Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 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 No further relevant information available.
- · 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:

According to our current data base the product does not consist of any heavy metals or substances of EU-directives 76/464/EWG.

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

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.

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· 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	

### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · 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.

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#### · Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

### 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: 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.

- · Department issuing SDS: KEIMFARBEN Germany, Product safety department
- · Version number of previous version: 11.0
- · 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)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative AGW: Arbeitsplatzgrenzwert (Germany)

REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)

\* Data compared to the previous version altered.

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