



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

Printing date 13.03.2019

Version number 8.0

Revision: 13.03.2019

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

- **1.1 Product identifier**
- **Trade name: KEIM LIGNOSIL-BASE-W**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** wood-primer
- **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:**  
Contains mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
- **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 alkyd resin emulsion with additives

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· <b>Dangerous components:</b>		
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 Reg.nr.: 01-2119475108-36	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤1%
CAS: 55965-84-9 Index number: 613-167-00-5	mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	<0.0015%

· **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:**

With appearance of symptoms or in cases of doubt seek medical advice .  
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:** CO<sub>2</sub>, foam, dry extinguishing powder· **For safety reasons unsuitable extinguishing agents:** Water with full jet· **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

carbon oxide (CO<sub>x</sub>)

In case of fire, thick, black smoke develops. Inhalation of the dangerous decomposition products may cause serious health damages.

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- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
The product itself is inflammable. The remaining polymer after ablating of the aqueous phase is flammable.  
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).  
Avoid contact with skin and eyes.  
Ensure adequate ventilation  
Keep away from ignition sources.  
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 non-combustible liquid-binding material (sand, diatomite, vermiculite).  
Close drainage (Risk of blocking due to polymer precipitation)  
Dispose of the material collected according to regulations.  
Flush rests with sufficient amount of water.  
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.  
Ensure good ventilation/exhaustion at the workplace.  
Avoid contact with skin and eyes.  
See item 8 (8.2) for information about suitable protective equipment and technical precautions.  
Respect the protection rules.
- **Information about fire - and explosion protection:**  
Protect from heat.  
Keep ignition sources away - Do not smoke.
- **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.

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- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Protect from frost.  
Store in a cool place.  
Protect from heat and direct sunlight.  
Store at temperatures between 5 °C and 40 °C.
- **Storage class:** 12
- **General information:** Stir up well before use.
- **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:**

###### **111-76-2 2-butoxyethanol**

AGW (Germany)	Long-term value: 49 mg/m <sup>3</sup> , 10 ppm 4(II);EU, H, Y, AGS
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###### **55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (<0.0015%)**

MAK (Germany)	Long-term value: 0.2E mg/m <sup>3</sup> vgl.Abschn.Xc
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##### · **DNELs**

###### **111-76-2 2-butoxyethanol**

Oral	Long-term - systemic effects	3.2 mg/kg bw/day (consumer)
	Acute - local effects	13.4 mg/kg/day (consumer)
Dermal	Acute - local effects	89 mg/kg bw/day (worker)
	Acute - local effects	44.5 mg/kg bw/day (consumer)
Inhalative	Long-term - systemic effects	75 mg/kg bw/day (worker)
	Long-term - systemic effects	38 mg/kg bw/day (consumer)
	Acute - systemic effects	663 mg/m <sup>3</sup> (worker)
	Acute - systemic effects	426 mg/m <sup>3</sup> (consumer)
	Long-term - systemic effects	20 mg/m <sup>3</sup> (worker)
	Long-term - systemic effects	49 mg/m <sup>3</sup> (consumer)

##### · **PNECs**

###### **111-76-2 2-butoxyethanol**

Aquatic compartment - freshwater	8.8 mg/l (freshwater)
Aquatic compartment - sediment in freshwater	8.14 mg/kg sed dw (sediment fresh water)
Terrestrial compartment - soil	2.8 mg/kg dw (sewage treatment plant)

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**· Ingredients with biological limit values:****111-76-2 2-butoxyethanol**

BGW (Germany)	150 mg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende, bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten Parameter: Butoxyessigsäure (nach Hydrolyse)
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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Avoid contact with the eyes and skin.
  - 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
- **Protection of hands:** Protective gloves
- **Material of gloves**
  - suitable material e.g.:
  - PVC or PE gloves
  - Recommended thickness of the material:  $\geq 0.7$  mm
  - Natural rubber, NR
  - Recommended thickness of the material:  $\geq 0.4$  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**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles
- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment**
  - 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****· Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	milky-white

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· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined
· <b>pH-value at 20 °C:</b>	~7
· <b>Change in condition</b>	
<b>Melting point/freezing point:</b>	~0 °C
<b>Initial boiling point and boiling range:</b>	~100 °C
· <b>Flash point:</b>	>100 °C
· <b>Flammability (solid, gas):</b>	Not applicable
· <b>Ignition temperature:</b>	Not determined
· <b>Decomposition temperature:</b>	Not determined
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
· <b>Oxidising properties</b>	Not applicable
· <b>Vapour pressure at 20 °C:</b>	~23 hPa
· <b>Density at 20 °C:</b>	1.0-1.1* g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Miscible
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 20 °C:</b>	100-500* mPas
<b>Kinematic at 40 °C:</b>	<205* mm <sup>2</sup> /s
· <b>9.2 Other information</b>	* The values are for freshly produced material and may change with the time.

### 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:** No further relevant information available.

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**10.6 Hazardous decomposition products:**

In case of fire, thick, black smoke develops. Inhalation of the dangerous decomposition products may cause serious health damages.

In case of fire, the following can be released:  
carbon oxide (CO<sub>x</sub>)

No hazardous decomposition products if stored and handled as prescribed.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

· **Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:****111-76-2 2-butoxyethanol**

Oral	LD50	1,000-2,000 mg/kg (rat)
Dermal	LD50	1,000-2,000 mg/kg (rab)
Inhalative	LC50/4 h	10-20 mg/l (rat)

**55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)**

Inhalative	LC50/4 h	0.33 mg/l (rat)
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**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, slightly irritating effect is possible.

· **during inhalation:** Irritant effect possible.

· **during swallowing:** Irritant effect possible

**Respiratory or skin sensitisation**

Contains CIT/MIT(3:1). May produce an allergic reaction.

CIT = 5-chloro-2-methyl-2H-isothiazol-3-one

MIT = 2-methyl-2H-isothiazol-3-one

**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.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not applicable

· **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.

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### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### 111-76-2 2-butoxyethanol

EC 50/48h	1,550 mg/l (daphnia)
EC 50/72 h	1,840 mg/l (algae)
LC 50/96 h	1,474 mg/l (fish)

##### 55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

EC 50/48h	0.16 mg/l (daphnia) (OECD 202)
EC 50	0.027 mg/l (algae)
LC 50/96 h	0.19 mg/l (fish)

· **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.

· **12.4 Mobility in soil** No further relevant information available.

##### · Ecotoxicological effects:

· **Other information:** Pretreat waste water with help of precipitation.

##### · Additional ecological information:

· **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.

The product may not be released into the environment without control.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

##### · 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **12.6 Other adverse effects** No further relevant information available.

### 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.

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**· 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****· 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 Transport in bulk according to Annex II of Marpol and the IBC Code**

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.**· National regulations:****· Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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- **Other regulations, limitations and prohibitive regulations**
- **Please note:**
  - TRGS 200 (Germany)
  - TRGS 500 (Germany)
  - TRGS 510 (Germany)
  - TRGS 900 (Germany)
- **Substances of very high concern (SVHC) according to REACH, Article 57** Not applicable
- **Product-Code/Giscode:** BSW20
- **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**
  - H301 Toxic if swallowed.
  - H302 Harmful if swallowed.
  - H311 Toxic in contact with skin.
  - H312 Harmful in contact with skin.
  - H314 Causes severe skin burns and eye damage.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
  - H331 Toxic if inhaled.
  - H332 Harmful if inhaled.
  - H400 Very toxic to aquatic life.
  - H410 Very toxic to aquatic life with long lasting effects.
- **Department issuing SDS:** KEIMFARBEN Germany, Product safety department
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport 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)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - 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)
  - REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)
  - Acute Tox. 3: Acute toxicity – Category 3
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Corr. 1B: Skin corrosion/irritation – Category 1B
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· \* **Data compared to the previous version altered.**

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