



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

Printing date 13.12.2016

Version number 11

Revision: 13.12.2016

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

- **1.1 Product identifier**
- **Trade name: KEIM S.V. PRIMER (SPEZIALVERDÜNNUNG)**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Thinner, Diluent
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
KEIM MINERAL PAINTS LTD  
Santok Building / Deer Park Way, Donnington Wood GB-Telford, Shropshire TF2 7NA  
Tel +44 1952 231 250 / Fax +44 1952 231 251  
www.keimpaints.co.uk / sales@keimpaints.co.uk
- **Further information obtainable from:**  
David Pratt  
Telefon: +44 1952 231250  
E-Mail: sales@keimpaints.co.uk
- **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 1,2-benzisothiazol-3(2H)-one. 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:** Acrylic polymer in aqueous solution

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**· Dangerous components:**

CAS: 7664-41-7 EINECS: 231-635-3 Index number: 007-001-00-5 Reg.nr.: 01-2119488876-14-XXXX	ammonia, anhydrous ☠ Acute Tox. 3, H331; ☠ Skin Corr. 1B, H314; ☠ Aquatic Acute 1, H400; Flam. Gas 2, H221	< 0.3%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one ☠ Eye Dam. 1, H318; ☠ Aquatic Acute 1, H400; ☠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	< 0.01%

**· 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:**

Seek medical treatment in case of complaints.

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>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**· 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>)

acrylic monomers

**· 5.3 Advice for firefighters****· Protective equipment:** Wear self-contained respiratory protective device.

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· **Additional information**

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

### 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  
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).  
Close drainage (Risk of blocking due to polymer precipitation)  
Danger of slipping!  
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**

Avoid contact with skin and eyes.  
Keep receptacles tightly sealed.  
Do not inhale aerosols.  
Ensure good ventilation/exhaustion at the workplace.  
See item 8 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:**

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:**

Protect from heat and direct sunlight.  
Protect from frost.

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

- **DNELs**

**7664-41-7 ammonia, anhydrous**

Oral	Long-term - systemic effects, consumer	6.8 mg/kg/day (consumer)
	Acute - local effects, consumer	6.8 mg/kg/day (consumer)
Dermal	Acute - local effects, worker	68 mg/kg (worker)
	Acute - local effects, consumer	68 mg/kg/day (consumer)
	Long-term - systemic effects, worker	68 mg/kg bw/day (worker)
	Long-term - systemic effects, consumer	68 mg/kg/day (consumer)
Inhalative	Acute-systemic effects, worker	47.6 mg/m <sup>3</sup> (worker)
	Acute-systemic effects, consumer	23.8 mg/m <sup>3</sup> (consumer)
	Acute - local effects, worker	36 mg/m <sup>3</sup> (worker)
	Acute - local effects, consumer	7.2 mg/m <sup>3</sup> (consumer)
	Long-term - systemic effects, worker	47.6 mg/m <sup>3</sup> (worker)
	Long-term - systemic effects, consumer	23.8 mg/m <sup>3</sup> (consumer)
	Long-term - local effects, worker	14 mg/m <sup>3</sup> (worker)
	Long-term - local effects, consumer	2.8 mg/m <sup>3</sup> (consumer)

- **PNECs**

**7664-41-7 ammonia, anhydrous**

Aquatic compartment - freshwater	0.0011 mg/l (freshwater)
Aquatic compartment - marine water	0.0011 mg/l (marine water)
Aquatic compartment - water, intermittent releases	0.0068 mg/l (not specified)

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

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.  
Immediately remove all soiled and contaminated clothing  
Avoid contact with the eyes and skin.  
Do not inhale aerosols.

- **Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.  
Combination filter A/P

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- **Protection of hands:** Protective gloves are recommendable
- **Material of gloves**  
suitable material e.g.:  
Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.1$  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 374 part III 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 protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - **Form:** Fluid
  - **Colour:** Whitish
  - **Odour:** Characteristic
  - **Odour threshold:** Not determined.
- **pH-value at 20 °C:** ~8
- **Change in condition**
  - **Melting point/Melting range:** ~0 °C
  - **Boiling point/Boiling range:** ~100 °C
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - **Lower:** Not applicable.
  - **Upper:** Not applicable.

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· <b>Vapour pressure at 20 °C:</b>	~23 hPa
· <b>Density at 20 °C:</b>	1* g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	miscible
· <b>Partition coefficient (n-octanol/water):</b>	Not applicable.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <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.
- **10.6 Hazardous decomposition products:**  
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:****7664-41-7 ammonia, anhydrous**

Oral	LD50	350 mg/kg (rat) (OECD 401)
Inhalative	LC50/4 h	2000 mg/l (rat)

**2634-33-5 1,2-benzisothiazol-3(2H)-one**

Oral	LD50	1193 mg/kg (rat)
Dermal	LD50	4115 mg/kg (rat)

- **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, irritating effect is possible.

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- **during inhalation:** Irritant effect possible.
- **during swallowing:** Irritant effect possible
- **Respiratory or skin sensitisation**  
Contains BIT. May produce an allergic reaction.  
BIT = 1,2-benzisothiazol-3(2H)-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.

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

**7664-41-7 ammonia, anhydrous**

EC 50/48h 24.4 mg/l (daphnia)

LC 50/96 h 0.8 mg/l (fish)

**2634-33-5 1,2-benzisothiazol-3(2H)-one**

EC 50/48h 2.94 mg/l (daphnia)

ErC50/72h 0.11 mg/l (algae)

LC 50/96 h 2.18 mg/l (fish)

- **12.2 Persistence and degradability** Not easily biodegradable
- **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:**
- **AOX-indication:**  
According to our standard of knowledge the product does not contain any organic bounded halogen. The product has no influence on the waste water's AOX-value.
- **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.

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- **General notes:**  
At present there are no ecotoxicological assessments.  
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
- **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.

· **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

- |  |  |
|--|--|
| · <b>14.1 UN-Number</b><br>· <b>ADR, IMDG, IATA</b>                                    | Void   |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, IMDG, IATA</b>                      | Void   |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, IMDG, IATA</b><br>· <b>Class</b> | Void   |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                | Void   |
| · <b>14.5 Environmental hazards:</b><br>· <b>Marine pollutant:</b>                     | No   |
| · <b>14.6 Special precautions for user</b>   | Not applicable.  |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>       | Not applicable.  |
| · <b>Transport/Additional information:</b>   | No dangerous good in sense of these transport regulations. |

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· **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 ammonia, anhydrous**
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **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:** M-VM04
- **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**
  - H221 Flammable gas.
  - H302 Harmful if swallowed.
  - H314 Causes severe skin burns and eye damage.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H318 Causes serious eye damage.
  - H331 Toxic if inhaled.
  - H400 Very toxic to aquatic life.
- **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)

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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

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

Flam. Gas 2: Flammable gases – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

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

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

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