



## Safety data sheet according to EU 453/2010

Printing date 15.04.2015

Version-No. 4

Revision: 15.04.2015

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

- **1.1. Product identifier**
- **Trade name / Article-No: KLEIBERIT 521 - Comp. A**
- **Article number:** 521.1 - orange / 521.3 - natural (beige) / 521.4 salmon pink / 521.8 - black / 521.9 - blue
- **1.2. Relevant identified uses of the substance / mixture or uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Adhesives
- **1.3. Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
KLEBCHEMIE  
M.G.Becker GmbH & Co. KG  
Max Becker Str. 4  
D - 76356 Weingarten / Baden
- Germany
- **Further information obtainable from:**  
phone: +49-7244-62-0  
FAX: +49-7244-700-0  
Email: hse@kleiberit.com
- **1.4. Emergency telephone number:**  
phone: +49-7244 62 486 / Language: English, German  
available on workdays (Mo - Fr) 08:00 am to 04:00 pm (Central European Time- CET)

### SECTION 2: Hazards identification

- **2.1. Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008 - GHS/CLP**  
The product is not classified as hazardous to health or environment according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC - DSD/DPD** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **2.2. Label elements**
- **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:** Preparation of polyether polyols and inorganic fillers

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**· Dangerous components:**

CAS-No	Description	Index R-phrases	%
CAS: 110-63-4 Reg.nr.: 01-2119471849-20-0000	1,4-Butandiol Xn R22	Acute Tox. 4, H302; STOT SE 3, H336	5-10%

**SECTION 4: First aid measures**

- **4.1. Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Void
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with plenty of water.  
Seek medical treatment.
- **Information for doctor:**
- **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:**  
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2. Special hazards arising from the substance or mixture**  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3. Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1. Personal precautions, protective equipment and emergency procedures**  
Particular danger of slipping on leaked/spilled product.
- **6.2. Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3. Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4. Reference to other sections** No dangerous substances are released.

**SECTION 7: Handling and storage**

- **Handling:**
- **7.1. Precautions for safe handling** No special measures required.
- **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:** No special measures required.
- **Information about storage in one common storage facility:** Observe the national regulations.
- **Further information about storage conditions:** None.

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- **7.3. Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1. Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

<b>CAS No.</b>	<b>Designation of material</b>	<b>%</b>	<b>Type</b>	<b>Value</b>	<b>Unit</b>
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**110-63-4 1,4-Butandiol**

AGW (Germany) Long-term value: 200 mg/m<sup>3</sup>, 50 ppm  
4(II);AGS, 11

- **8.2. Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

- **Respiratory protection:** Not required.

- **Protection of hands:** Protective gloves

- **Material of gloves** Synthetic rubber gloves

- **Eye protection:** Safety glasses

**SECTION 9: Physical and chemical properties**

- **9.1. Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Fluid

Colour: According to product specification

Odour: Weak, characteristic

pH-value: Not applicable

- **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: > 100 °C

Flash point: > 140 °C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Vapour pressure at 20 °C: - hPa

Density at 20 °C: 1,15 g/cm<sup>3</sup>

Solubility in / Miscibility with water: Not miscible or difficult to mix.

- **Viscosity:**

Dynamic at 20 °C: ca. 2800 mPas

Method: Brookfield RVT

9.2. Other information No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1. Reactivity** see item 10.3

- **10.2. Chemical stability** Stable when stored and used properly.

- **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.

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- **10.5. Incompatible materials:** No further relevant information available.
- **10.6. Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1. Information on toxicological effects**

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitisation:** No sensitising effects known.

- **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

### SECTION 12: Ecological information

- **12.1. Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **12.2. Persistence and degradability** No further relevant information available.

- **Other information:** The product is biodegradable.

- **12.3. Bioaccumulative potential** No further relevant information available.

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

- **Additional ecological information:**

- **General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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**

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

- **European waste catalogue**

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

- **Uncleaned packaging:**

- **Recommendation:**

Non contaminated packagings may be recycled.

Empty contaminated packagings thoroughly. Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1. UN-Number** None

- **14.2. UN proper shipping name** Void

- **14.3. Transport hazard class(es)**

- **ADR, IMDG**

No dangerous good

- **Class**

- **IATA**

- **Class**

Not classified as dangerous goods under IATA regulations

- **14.4. Packing group** Void

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- **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 MARPOL73/78 and the IBC Code** Not applicable.

**SECTION 15: Regulatory information**

- **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**  
See position 2 - Hazards Identification
- **National regulations:**
  - **D: Waterhazard class** Water hazard class 1 (Self-assessment): slightly hazardous for water.
  - **EU: VOC - Volatile Organic Compounds (Directive 13/1999/EC)**
  - **VOC - portion [mass-%]:** 0,00 %
  - **National Regulations (others than Germany or EU)**
  - **DK: MAL-Code:** 4-1
- **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**

H302 Harmful if swallowed.

H336 May cause drowsiness or dizziness.

R22 Harmful if swallowed.

· **Department issuing MSDS:** Safety & Environment

· **Contact:** Dr. Wolfgang Stüber

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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)

MAL-Code: Måleteknisk Arbejdshygienisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity, Hazard Category 4

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

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