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Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time

Printing date 24.04.2023 Version-No. 4 (replaces version 3) Revision: 24.04.2023

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

- · 1.1. Product identifier
- · Trade name / Article-No: KLEIBERIT 523.3
- · Component: A
- 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: KLEIBERIT SE & Co. KG Max-Becker-Str. 4 76356 Weingarten Germany
- Further information obtainable from:

phone: +49 (0) 7244 62-0 FAX: +49 (0) 7244 700-0 E-Mail: hse@kleiberit.com

1.4. Emergency telephone number: +44 1235 239670 European regional number (European languages)

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.

- · 2.2. Label elements
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Additional information:

Safety data sheet available on request.

- 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**: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

Registry-No's Identification / Classification GHS-CLP %

CAS: 25322-68-3 polyethylene glycol ≤3%

substance with a Community workplace exposure limit

CAS: 110-63-4 1,4-Butandiol <2%

Reg.nr.: 01-2119471849-20-0000 Acute Tox. 4, H302; STOT SE 3, H336

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· Additional information:

Carbon black is not present as a powder and inseparably bound in the product.

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1. Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: 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: Call for a doctor 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:

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 No further relevant information available.
- 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:** No special measures required.
- 6.3. Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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

Appropriate regular employee training.

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Wear protective gloves/protective clothing/eye protection/face protection.

Carry out filling operations only at sites with extractors available.

regular check up, maintenance and cleaning of equipment and machines

Clean the pipe before decoupling

- · 7.2. Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Keep container tightly closed.
- 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

- · 8.1. Control parameters
- · Ingredients with limit values that require monitoring at the workplace:
- · DNELs

110-63-4 1,4-Butandiol

Dermal DNEL long term 19 mg/kg (human being) Inhalative DNEL long term 136 mg/m3 (human being)

· PNECs

110-63-4 1,4-Butandiol

PNEC- Freshwater 0.813 mg/l (not specified)
PNEC-seawater 0.0813 mg/l (not specified)
PNEC-Freshwater sediment 3.61 mg/kg (not specified)
PNEC-Seawater sediment 0.361 mg/kg (not specified)
PNEC-soil 0.244 mg/kg (not specified)
PNEC-wastewater treatment plant 1,554 mg/l (not specified)

CAS No. Designation of material % Type Value Unit

25322-68-3 polyethylene glycol

AGW (Germany) Long-term value: 200 E mg/m³ 2(II);DFG, Y

110-63-4 1,4-Butandiol

AGW (Germany) Long-term value: 200 mg/m³, 50 ppm 4(II);AGS, 11

· 8.2. Exposure controls

limit the exposure to:

8 hours

- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

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

- · Respiratory protection: Not necessary if room is well-ventilated.
- · Hand protection Protective gloves
- · Material of gloves Synthetic rubber gloves
- · Eye/face protection Safety glasses
- · Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

- 9.1. Information on basic physical and chemical properties
- · General Information

· Physical state Fluid · Colour: Black

Odour: Weak, characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

>100 °C

Boiling point or initial boiling point and boiling

range

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· Flammability · Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined.

· Flash point: >140 °C

· Auto-ignition temperature: Not applicable. Decomposition temperature: Not determined. · pH Not determined.

· Viscosity:

Kinematic viscosity Not determined. · Dynamic at 20 °C: ca. 28.000 mPas

· Solubility

Not miscible or difficult to mix. · water:

· Partition coefficient n-octanol/water (log value) Not determined. · Vapour pressure: Not determined.

· Density and/or relative density

· Density at 20 °C: ca. 1.19 g/cm³ · Relative density Not determined. · Vapour density Not determined.

· 9.2. Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and

environment, and on safety.

· Ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard 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

see item 10.3

No further relevant information available.

- · 10.2. Chemical stability Stable when stored and used properly.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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- · 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 dangerous decomposition products known.

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:

25322-68-3 polyethylene glycol

Oral LD₅₀ >15,000 mg/kg (rat) Dermal LD₅₀ >20,000 mg/kg (rabbit)

>2,000 mg/kg (rat)

110-63-4 1,4-Butandiol

Oral LD₅₀ 1,500 mg/kg (rat)

Dermal LD₅₀ >2,000 mg/kg (rabbit)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · 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.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1. Toxicity
- · Aquatic toxicity:

25322-68-3 polyethylene glycol

LC₅₀ >100 mg / I / 96h (fish)

 $LC_{50} > 10,000 \text{ mg} / I / 48h \text{ (water flea - daphnia)}$

 $EC_{50} > 100 \text{ mg} / I / 48h \text{ (water flea - daphnia)}$

EC₅₀ >100 mg / I / 72h (algae)

110-63-4 1,4-Butandiol

LC₅₀ >3,000 mg / I / 96h (fish) (OECD-Richtlinie 202, Teil 1,statisch)

EC₅₀ 813 mg / I / 48h (water flea - daphnia)

EC₅₀ >500 mg / I / 72h (algae)

- · 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.

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· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Behaviour in sewage processing plants:
- · Remark:

At correct sewage disposal in small quantities to biological sewage plants failures of the activated sludge are not expected.

- Additional ecological information:
- · General notes:

Not known to be hazardous to water.

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 together with household garbage. Do not allow product to reach sewage system.

· 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 or ID number

· ADR, IMDG, IATA Void

· 14.2. UN proper shipping name

· DOT, ADR, IMDG, IATA Void

· 14.3. Transport hazard class(es)

· Class Void

· 14.4. Packing group

· ADR, IMDG, IATA Void

• 14.5. Environmental hazards: Not applicable. • 14.6. Special precautions for user Not applicable.

· 14.7. Maritime transport in bulk according to IMO

instruments Not applicable.

SECTION 15: Regulatory information

- · 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture See position no 2 Hazards Identification
- · Directive 2012/18/EU Seveso-III:
- · Named dangerous substances ANNEX I None of the ingredients is included.
- Regulation (EU) No 649/2012

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

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

- · Department issuing SDS: Safety & Environment
- · Version number of previous version: 3
- 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

DOT: US Department of Transportation

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)

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

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3