Safety data sheet

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

Printing date 21.07.2026 Version-No. 11.0 (replaces version 10.0) Revision: 21.07.2026

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

· **1.1. Product identifier**

· **Trade name / Article-No: KLEIBERIT *431.7***

· **UFI:** 1261-01MX-M000-NKV4

· **1.2. Relevant identified uses of the substance / mixture or uses advised against**
For professional users only.

· **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)
112 Emergency telephone number for Malta
543 22 22 Icelandic University Hospital
National Poisons Information Centre Ireland:
+353 (0)1 809 2166 Members of the public Number (8am-10pm)
+353 (0)1 809 2566 Healthcare professional telephone Number (24hrs)

*

SECTION 2: Hazards identification

· **2.1. Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008 - GHS/CLP**
Skin Sens. 1 H317 May cause an allergic skin reaction.

· **2.2. Label elements**

· **Hazard pictograms**

GHS07

· **Signal word** Warning

· **Hazard-determining components of labelling:**
2,4-dioxo-1,3-diazetidine-1,3-bis(methyl-m-phenylene) diisocyanate
1,2-benzisothiazol-3(2H)-one
a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)

· **Hazard statements**
H317 May cause an allergic skin reaction.

· **Precautionary statements**
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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· **Additional information:**
Contains isocyanates. May produce an allergic reaction.
· **2.3. Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Determination of endocrine-disrupting properties** 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: 26747-90-0	2,4-dioxo-1,3-diazetidine-1,3-bis(methyl-m-phenylene) diisocyanate Skin Sens. 1, H317; STOT SE 3, H335	≥1-≤3%
CAS: 2634-33-5 Reg.nr.: 01-2120761540-60-XXXX	1,2-benzisothiazol-3(2H)-one Acute Tox. 2, H330; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317 ATE: LC_{50} /4 h inhalative: 0.5 mg/l Specific concentration limit: Skin Sens. 1A; H317: C ≥0.036 %	≥0.036-<0.05%
CAS: 55965-84-9	a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1) Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 Specific concentration limits: Skin Corr. 1C; H314: C ≥0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	≥0.00025-<0.0015%
CAS: 2682-20-4 Reg.nr.: 05-2114130012-75-XXXX	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1A, H317, EUH071, EUH208D Specific concentration limit: Skin Sens. 1A; H317: C ≥0.0015 %	<0.0015%

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· **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**
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:**
Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.
If skin irritation continues, consult a doctor.
· **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**
Wear protective equipment. Keep unprotected persons away.
Particular danger of slipping on leaked/spilled product.
· **6.2. Environmental precautions:** Dilute with plenty of water.
· **6.3. Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
· **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** No special precautions are necessary if used correctly.

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

· **PNECs**

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

PNEC- Freshwater	0.00403 mg/l (not specified)
PNEC-seawater	0.000403 mg/l (not specified)
PNEC-Freshwater sediment	0.0499 mg/kg (not specified)
PNEC-Seawater sediment	0.00499 mg/kg (not specified)
PNEC-soil	3 mg/kg (not specified)
PNEC-wastewater treatment plant	1.03 mg/l (not specified)

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

PNEC- Freshwater	0.00339 mg/l (not specified)
PNEC-seawater	0.00339 mg/l (not specified)
PNEC-Freshwater sediment	0.027 mg/kg (not specified)
PNEC-Seawater sediment	0.027 mg/kg (not specified)
PNEC-soil	0.01 mg/kg (not specified)
PNEC-wastewater treatment plant	0.027 mg/l (not specified)

· **CAS No. Designation of material % Type Value Unit**

2634-33-5 1,2-benzisothiazol-3(2H)-one
MAK (Germany) vgl.Abschn.IIb und Xc

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)
MAK (Germany) Long-term value: 0.2E mg/m³
vgl.Abschn.Xc

2682-20-4 2-methyl-2H-isothiazol-3-one
MAK (Germany) vgl. Abschn. IIb und Xc

· **8.2. Exposure controls**
limit the exposure to:
8 hours

· **Appropriate engineering controls** No further data; see section 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.

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· **Hand protection** Protective gloves
· **Material of gloves** A Nitrile rubber - NBR: AlphaTec® (> 0,4 mm)
· **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**	Liquid
· **Colour:**	White
· **Odour:**	Weak, characteristic
· **Odour threshold:**	Not determined
· **Melting point/freezing point:**	0 °C
· **Boiling point or initial boiling point and boiling range**	100 °C
· **Flammability**	Not applicable
· **Lower and upper explosion limit**	
· **Lower:**	Not determined
· **Upper:**	Not determined
· **Flash point:**	Not applicable
· **Auto-ignition temperature:**	Not applicable
· **Decomposition temperature:**	Not determined
· **pH at 20 °C**	ca. 9
· **Viscosity:**	
· **Kinematic viscosity**	Not determined
· **Dynamic at 20 °C:**	ca. 2.000 mPas
· **Solubility**	
· **water:**	Fully miscible.
· **Partition coefficient n-octanol/water (log value)**	Not determined
· **Vapour pressure:**	Not determined
· **Density and/or relative density**	
· **Density at 20 °C:**	ca. 1.1 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

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· **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.
· **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/LC$_{50}$ values relevant for classification:**

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

Oral	LD_{50}	>1,150 mg/kg (mouse)
		1,020 mg/kg (rat)
Dermal	LD_{50}	>2,000 mg/kg (mouse)
		4,115 mg/kg (rat)

Inhalative LC_{50} /4 h 0.5 mg/l (ATE)

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

Oral	LD_{50}	457 mg/kg (rat)
Dermal	LD_{50}	141 mg/kg (rabbit)

Inhalative LC_{50} /4 h 0.33 mg/l (rat)
· **Primary irritant effect:**
· **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.

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· **Respiratory or skin sensitisation** May cause an allergic skin reaction.
· **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**
Unnecessary

None of the ingredients is listed.
· **Other information** none

SECTION 12: Ecological information

· **12.1. Toxicity**
· **Aquatic toxicity:**

2634-33-5 1,2-benzisothiazol-3(2H)-one
LC_{50} 1.3 mg / l / 96h (Fathead minnow - Pimephales promelas)
LC_{50} 2.94 mg / l / 48h (water flea - daphnia)
EC_{50} 3.7 mg / l / 48h (water flea - daphnia)
EC_{50} 0.37 mg / l / 72h (green algae-Ps.kirchneriella subcapitata)

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)
LC_{50} 0.19 mg / l / 96h (Fathead minnow - Pimephales promelas)
0.19 mg / l / 96h (fish)
EC_{50} 0.16 mg / l / 48h (water flea - daphnia)
EC_{50} 0.018 mg / l / 72h (green algae-Ps.kirchneriella subcapitata)
· **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**
· **Additional ecological information:**
· **General notes:** 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.

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· **European waste catalogue**

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

· **Uncleaned packaging:**

· **Recommendation:**

Non contaminated packagings may be recycled.

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

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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 (EC) No 1907/2006 - REACH, ANNEX XVII** Conditions of restriction: 3

· **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.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

67-64-1 acetone: 3

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· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

67-64-1 acetone: 3

· **National regulations:**

· **D: Waterhazard class** Water hazard class 1 (Self-assessment): slightly hazardous for water.
· **Other regulations, limitations and prohibitive regulations:** For professional users only.
· **VOC - 2010/75/EU [g/L]:** <10.0 g/l
· **VOC - 2010/75/EU [%]:** <1.00 %

· **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.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208D	Contains 2-Methyl-2H-isothiazol-3-on. May produce an allergic reaction.

· **Department issuing SDS:** Safety & Environment
· **Version number of previous version:** 10.0
· **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
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)
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
ATE: Acute toxicity estimate values
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4

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Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
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
Skin Sens. 1A: Skin sensitisation – Category 1A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
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
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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