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

time to time

Printing date 08.03.2023

\*

Version-No. 16 (replaces version 15)

Revision: 08.03.2023

Trade name / Article-No: KLEIBERIT <b>831.0</b>	
UFI: 9NHF-V0RT-Q00M-YYDS	
1.2. Relevant identified uses of the substance / mixture <u>or</u> uses adv	ised against
For professional users only.	C
Application of the substance / the mixture	
Solvents	
Coating compound/ Surface coating/ paint	
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	
<ul> <li>1.4. Emergency telephone number:</li> <li>+44 1235 239670 European regional number (European languages)</li> </ul>	
<b>112</b> Emergency telephone number for Malta	
543 22 22 Icelandic University Hospital	
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No 1272/2008 - GHS/CL	P
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2 H319 Causes serious eye irritation.	
Carc. 2 H351 Suspected of causing cancer.	
STOT SE 3 H336 May cause drowsiness or dizziness.	
2.2. Label elements	
Hazard pictograms	
$\wedge \wedge$	
GHS07 GHS08	
Signal word Warning	
Hazard-determining components of labelling:	
dichloromethane	
Hazard statements H315 Causes skin irritation.	
H319 Causes serious eye irritation.	
H351 Suspected of causing cancer.	

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P280 Wear protective P304+P340 IF INHALED: R P305+P351+P338 IF IN EYES: Ri present and ea	ors or in a well-ventilated area. e gloves / eye protection. Remove person to fresh air and keep comfortabl nse cautiously with water for several minutes. R isy to do. Continue rinsing. ventilated place. Keep container tightly closed.	
SECTION 3: Composition/i	information on ingredients	
3.2 Mixtures	es listed below with nonhazardous additions.	
-	tification / Classification GHS-CLP	%
CAS: 75-09-2 Reg.nr.: 01-2119480404-41-XXX>	dichloromethane <sup>(</sup> Carc. 2, H351; Skin Irrit. 2, H315; Eye Irrit. 2, H H336	>95% H319; STOT SE 3,
	Ethanol <sup>(</sup> Flam. Liq. 2, H225; Eye Irrit. 2, H319	<2%
• Additional information: For the v	wording of the listed hazard phrases refer to sec	tion 16.
SECTION 4: First aid meas	sures	
<ul> <li>persist.</li> <li>In case of unconsciousness place</li> <li>After skin contact:</li> <li>Treat affected skin with cotton woo agent.</li> <li>After eye contact: Rinse opened</li> <li>After swallowing: Call for a doctor</li> <li>4.2. Most important symptoms a Headache</li> <li>Drowsiness</li> <li>Dizziness</li> <li>Nausea</li> </ul>	de artificial respiration. Keep patient warm. Cons patient stably in side position for transportation. ol or cellulose. Then wash and rinse thoroughly eye for several minutes under running water. Th or immediately. and effects, both acute and delayed	with water and a mild cleaning nen consult a doctor.
SECTION 5: Firefighting m	easures	
<ul> <li>5.1. Extinguishing media</li> <li>Suitable extinguishing agents: CO2, powder or water spray. Figh</li> <li>5.2. Special hazards arising from In case of fire, the following can be Hydrogen chloride (HCI)</li> </ul>		It foam. (Contd. on page 3)

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(Contd. of page 2) Phosgene gas Carbon monoxide Chlorine • <b>5.3. Advice for firefighters</b> • <b>Protective equipment:</b> Wear self-contained respiratory protective device. • <b>Additional information</b> Cool endangered receptacles with water spray.
<ul> <li>SECTION 6: Accidental release measures</li> <li>6.1. Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Particular danger of slipping on leaked/spilled product.</li> <li>6.2. Environmental precautions: Do not allow to enter surface or ground water.</li> <li>6.3. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.</li> <li>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.</li> </ul>
<ul> <li>SECTION 7: Handling and storage</li> <li>7.1. Precautions for safe handling Appropriate regular employee training. Handle the substance preferably in closed system Enclosure or extractor facilities are required. Not less than 5-15 air exchanges per hour 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 cothing/eye protection/face protection. Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Avoid splashes or spray in enclosed areas. regular check up, maintenance and cleaning of equipment and machines Application temperature is not higher than 20°C above the surrounding temperature Avoid contact with the skin. Conduct spray applications in a ventilated booth or in an exhausted enclosure. Or as an alternative, ensure an adequate level of controlled ventilation (10 to 15 air changes per hour) and wear a respiratory protective device according to EN140 with filter type AX or beter. if possible use tools with long handles Clean the pipe before decoupling Information about fire - and explosion protection. Dichloromethane is under most application conditions at normal temperatures not a flammable liquid. It has no measurable flash point, but with sufficient mass it will build a combustible air-vapour-mixture, if enough ignition energy will be available. General protective and hygienic measures: Avoid contact with the eyes and skin. Keep good industrial hygiene. 7.2. Conditions for safe storage, including any incompatibilities</li> </ul>
<ul> <li>Storage:</li> <li>Storage:</li> <li>Requirements to be met by storerooms and receptacles: Keep container tightly closed.</li> <li>Information about storage in one common storage facility: Observe the national regulations.</li> <li>Further information about storage conditions: None.</li> </ul>

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· 7.3. Specific end	ueo(e) No fur		
		ther relevant information available.	(Contd. of page 3)
SECTION 8: E	xposure co	ontrols/personal protection	
8.1. Control para	meters		
<ul> <li>Ingredients with</li> <li>DNELs</li> </ul>	limit values t	hat require monitoring at the workplace:	
Inhalative DNEL	ong term 12 r short term 706	ng/kg (human being) mg/m3 (human being) mg/m3 (human being)	
Inhalative DNEL s DNEL I	short term 1,90	mg/kg (human being) 10 mg/m3 (human being) mg/m3 (human being)	
· PNECs			
64-17-5 Ethanol PNEC- Freshwate PNEC-seawater PNEC-Freshwate PNEC-Seawater PNEC-soil PNEC-wastewate Ingredients with 75-09-2 dichloro BGW (Germany)	er lease r sediment sediment r treatment pla er r sediment r treatment pla <u>biological</u> li methane 500 µg/L		
	Probennahme Parameter: Di		
75-09-2 dichloro			
IOELV (INT)	Short-term val	ue: 706 mg/m³, 200 ppm ue: 353 mg/m³, 100 ppm	
	Long-term val 2(II);DFG, H, 2	ue: 180 mg/m³, 50 ppm Z	
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		(Contd. of page
64-17-5 Ethanol		
AGW (Germany) Long-term value 4(II);DFG, Y	: 380 mg/m³, 200 ppm	
· 8.2. Exposure controls		
limit the exposure to:		
8 hours		
· Appropriate engineering contro	IS No further data; see item 7.	
<ul> <li>Individual protection measures,</li> </ul>	such as personal protective equipment	
General protective and hygienic	: measures: Do not inhale gases / fumes / aero	osols.
Respiratory protection:		
Use suitable respiratory protective	e device in case of insufficient ventilation:	
Organic gases/vapors (boiling poir	nt <'less than' 149 °F/65 °C): eg.	
<sup>1</sup> (F)OV - (Full Facepiece) Organi		
<sup>2</sup> Europe: EN 371 Filtertype AX, t		
<ul> <li>Hand protection Protective glove</li> </ul>		
<ul> <li>Material of gloves <u>D</u> butyl rubbe</li> </ul>		
Penetration time of glove mater		
Not suitable are gloves made of	f the following materials: G Chloroprene rubb	per - CR: Neotop® (0.75 mm)
· Eye/face protection Safety glass	es	
· Body protection: Protective work	clothing	
Environmental exposure contro	ls	
	e atmosphere only via suitable separators.	
SECTION 9: Physical and	chemical properties	
9.1. Information on basic physic	· · ·	
· General Information	ai and chemical properties	
	Fluid	
<ul> <li>Physical state</li> <li>Colour:</li> </ul>	Whitish	
· Odour:	Sweetish	
Odour threshold:	Not determined.	
Melting point/freezing point:	-95.1 °C	
<ul> <li>Boiling point or initial boiling point</li> </ul>	bint and boiling	
range	40 °C	
Flammability	Not applicable.	
· Lower and upper explosion limi		
Lower:	13 Vol %	
Upper:	22 Vol %	
Flash point:	Not applicable.	
Ignition temperature:	605 °C	
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.	
· pH	Not determined.	
· Viscosity:		
· Kinematic viscosity	Not determined.	
· Dynamic:	Not determined.	
· Solubility		
· water at 20 °C:	20 g/l	
· Partition coefficient n-octanol/w		
· Vapour pressure at 20 °C:		
· Density and/or relative density		
	453 hPa	
	453 hPa	
· Density at 20 °C:	453 hPa ca. 1.33 g/cm³	
· Relative density	453 hPa ca. 1.33 g/cm³ Not determined.	
	453 hPa ca. 1.33 g/cm³	(Contd. on page

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#### Trade name / Article-No: KLEIBERIT 831.0 (Contd. of page 5) · 9.2. Other information · Appearance: · Form: Fluid · Important information on protection of health and environment, and on safety. · Auto-ignition temperature: Product is not selfigniting. · Explosive properties: Product does not present an explosion hazard. · Change in condition Not determined. · Evaporation rate 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 Oxidisina liauids 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
- Reacts with acids, alkalis and oxidising agents.
- Reacts spontaneously with alkaline metals.
- 10.4. Conditions to avoid No further relevant information available.
- **10.5. Incompatible materials:** No further relevant information available.
- **10.6. Hazardous decomposition products:** Hydrogen chloride (HCl)

#### **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<sub>50</sub> values relevant for classification:

#### 75-09-2 dichloromethane

Oral	$LD_{50}$	>2,000 mg/kg (rat)
Dermal	$LD_{50}$	>2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402)
Inhalative	e LC <sub>50</sub> /4 ł	n 88 mg/l (rat)

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### Trade name / Article-No: KLEIBERIT 831.0

64-17-5 Ethanol

Oral LD<sub>50</sub> 10,470 mg/kg (rat)

Dermal LD<sub>50</sub> 20,000 mg/kg (rabbit)

Inhalative LC<sub>50</sub> /4 h 116.9 mg/l (rat)

- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- 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 Suspected of causing cancer.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause drowsiness or dizziness.
- 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:

#### 75-09-2 dichloromethane

- LC<sub>50</sub> 193 mg / I / 96h (Fathead minnow Pimephales promelas)
  - 97 mg / I / 96h (fish)
- LC<sub>50</sub> 27 mg / I / 48h (water flea daphnia) 97 mg / I / 48h (fish)
- EC<sub>50</sub> 220 mg / I / 48h (water flea daphnia)
- IC<sub>50</sub> >662 mg / I / 72h (algae)

#### 64-17-5 Ethanol

LC<sub>50</sub> 13,000 mg / I / 96h (Fathead minnow - Pimephales promelas) (OECD 203)

- EC₅₀ 12,340 mg / I / 48h (water flea daphnia) Methode ASTM E 729-80 Süßwasser
- EC<sub>50</sub> 858 mg / I / 24h (water flea daphnia) (OECD 202)
- EC<sub>50</sub> 275 mg / I / 72h (algae)
- Methode: OECD 201
- 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
- · 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.

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<ul> <li>Additional ecological information:</li> <li>General notes:</li> </ul>	
Water hazard class 2 (German Regulation) (Self-a	ssessment): hazardous for water
Danger to drinking water if even small quantities le	
Do not allow product to reach sewage system or an	ny water course.
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Recommendation	bage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regula	
European waste catalogue	
07 02 03* organic halogenated solvents, washing li	iquids and mother liquors
14 06 02* other halogenated solvents and solvent i	
Uncleaned packaging:	
Recommendation:	
Non contaminated packagings may be recycled.	
Empty contaminated packagings thoroughly. Dispo	is all must be made according to official regulations.
SECTION 14: Transport information	
14.1. UN number or ID number	
ADR, IMDG, IATA	UN1593
14.2. UN proper shipping name	
DOT, IMDG, IATA	DICHLOROMETHANE solution
ADR	1593 DICHLOROMETHANE solution
14.3. Transport hazard class(es)	
Class	6.1 Toxic substances.
Label	6.1
14.4. Packing group ADR, IMDG, IATA	111
14.5. Environmental hazards:	Not applicable.
14.6. Special precautions for user	Warning: Toxic substances.
Hazard identification number (Kemler code):	60
EMS Number:	F-A,S-A
Segregation groups	(SGG10) Liquid halogenated hydrocarbons
Stowage Category	A
14.7. Maritime transport in bulk according to IM instruments	Not applicable.
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	2
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
	Code: E1
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml

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#### 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, 59

· 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

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 2 (Self-assessment): hazardous for water.

- Other regulations, limitations and prohibitive regulations: Restricted to professional users.
- VOC 2010/75/EU [g/L]: <1,300.0 g/l
- · VOC 2010/75/EU [%]: <98.00 %

· VOC - carbon content [g C/kg]: 137.8 g C/kg

· 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

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

#### · Department issuing SDS: Safety & Environment

- Version number of previous version: 15
- 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

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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 Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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