

Page 1/7

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

Printing date 09.03.2021 Version-No. 8 Revision: 09.03.2021

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

- · 1.1. Product identifier
- · Trade name / Article-No: KLEIBERIT 304.3
- · UFI: 6Q62-20XP-100W-15UR
- 1.2. Relevant identified uses of the substance / mixture or uses advised against

Restricted to professional users.

- 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

D - 76356 Weingarten / Baden

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)

+44 1235 239671

Middle Eastern/African regional number (Middle Eastern/African languages)

+1 215 207 0061

Americas regional number (English, Spanish, Portuguese)

+65 3158 1412

Asia Pacific regional number (English, Bahasa, Malaysia, Hindi, Japanese, Korean, Mandarin,

Tagalog)

#### **SECTION 2: Hazards identification**

- · 2.1. Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008 GHS/CLP

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1 H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- · 2.2. Label elements
- Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard-determining components of labelling: aluminum chloride, basic
- Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

(Contd. on page 2)

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

Printing date 09.03.2021 Version-No. 8 Revision: 09.03.2021

Trade name / Article-No: KLEIBERIT 304.3

(Contd. of page 1)

· Precautionary statements

P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves / eye protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

[or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

· 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: 1327-41-9 aluminum chloride, basic

20-30%

Reg.nr.: 01-2119531563-43-XXXX Met. Corr.1, H290; Eye Dam. 1, H318

· 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: Immediately remove any clothing soiled by the product.
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Call for a doctor immediately.

Rinse out mouth and then drink plenty of water.

· 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.

(Contd. on page 3)

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

Printing date 09.03.2021 Version-No. 8 Revision: 09.03.2021

Trade name / Article-No: KLEIBERIT 304.3

(Contd. of page 2)

### · 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.

#### 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

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

Application temperature is not higher than 20°C above the surrounding temperature additional to professional application with multiple and/or significant contact limit the exposure to 1 hour

#### General protective and hygienic measures:

Appropriate regular employee training.

Keep good industrial hygiene.

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

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

#### · 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 Face protection
- · Body protection: Protective work clothing

#### **SECTION 9: Physical and chemical properties**

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

Physical state
Colour:
Odour:
Odour threshold:
Fluid
Colourless
Chlorine-like
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.

(Contd. on page 4)

(Contd. of page 3)

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

Printing date 09.03.2021 Version-No. 8 Revision: 09.03.2021

Trade name / Article-No: KLEIBERIT 304.3

· Flash point: Not applicable.

• Auto-ignition temperature: Product is not selfigniting.

· **Decomposition temperature:** Not determined.

· pH at 20 °C

· Viscosity:

Kinematic viscosityDynamic at 20 °C:Not determined.ca. 50 mPas

· Solubility

• water: Fully miscible.
• Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure at 20 °C: 23 hPa

· Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

9.2. Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and

environment, and on safety.

· **Ignition temperature:** Not applicable.

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

Change in condition

· Evaporation rate Not determined.

Information with regard to physical hazard classes

Void · Explosives · 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 May be corrosive to metals.

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.

(Contd. on page 5)

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

Printing date 09.03.2021 Version-No. 8 Revision: 09.03.2021

Trade name / Article-No: KLEIBERIT 304.3

(Contd. of page 4)

• 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<sub>50</sub> values relevant for classification:

#### 1327-41-9 aluminum chloride, basic

Oral LD<sub>50</sub> >2,000 mg/kg (rat)

Dermal LD<sub>50</sub> >2,000 mg/kg (rat)

- · Skin corrosion/irritation Causes severe skin burns and eye damage.
- · Serious eye damage/irritation Causes serious eye damage.
- · 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:

#### 1327-41-9 aluminum chloride, basic

LC<sub>50</sub> 142 mg / I / 96h (Zebrafish - Danio rerio)

 $EC_{50} > 200 \text{ mg} / I / 48h \text{ (water flea - daphnia)}$ 

- · 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.

- 12.6. 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:

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

(Contd. on page 6)

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

Printing date 09.03.2021 Version-No. 8 Revision: 09.03.2021

Trade name / Article-No: KLEIBERIT 304.3

(Contd. of page 5)

### **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

06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

15 01 04 metallic packaging

- 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 UN2581

14.2. UN proper shipping name

· DOT Aluminum chloride, solution

· ADR 2581 ALUMINIUM CHLORIDE SOLUTION · IMDG, IATA ALUMINIUM CHLORIDE SOLUTION

· 14.3. Transport hazard class(es)

· Class 8 Corrosive substances.

· Label 8

· 14.4. Packing group

· ADR. IMDG. IATA Ш

· 14.5. Environmental hazards: Not applicable.

· 14.6. Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code): · EMS Number: F-A,S-B Segregation groups Acids Stowage Category 14.7. Maritime transport in bulk according to IMO

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 3 · Tunnel restriction code Ε

· IMDG

· Limited quantities (LQ) 51 Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

### **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

(Contd. on page 7)

(Contd. of page 6)

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

Printing date 09.03.2021 Version-No. 8 Revision: 09.03.2021

Trade name / Article-No: KLEIBERIT 304.3

· 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.

- · National regulations:
- D: Waterhazard class Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations: Restricted to professional users.
- · National Regulations (others than Germany or EU)
- French Regulation (Decree No. 2011-321): class A+
- · 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

H290 May be corrosive to metals.

H318 Causes serious eye damage.

- · Department issuing SDS: Safety & Environment
- · Version number of previous version: 1
- · 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Met. Corr.1: Corrosive to metals – Category 1

Skin Corr. 1: Skin corrosion/irritation - Category 1

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

INT