

Safety data sheet

according to regulation (EG) No. 1907/2006

Trade name: **CaLoXiL® Binding agent**

Revision: 27 July 2023

Into force on: 02.05.2017

Version: 1.1

SECTION 1: Identification of the substances/mixtures and the company/undertaking

1.1 Product identifier

CaLoXiL® Binding agent

1.2 Relevant identified uses of the substance or mixture and uses advised against

Binding agent, preparation of mortar and plaster, for different use in the culture heritage (stone conservation)

Details of the supplier of the safety data sheet

Company: IBZ-Salzchemie GmbH & Co.KG
Address: Schwarze Kiefern 4; DE-09633 Halsbruecke
Phone/fax/e-mail: +49 (0) 3731 200 155 / +49 (0) 3737 200 156
info@ibz-freiberg.de

1.3 Emergency telephone number

Germany: +49 (0) 3731 200 155 (Mo.-Fr.: 7.30 a.m. - 16.15 p.m.)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

According regulation (EG) No. 1272/2008

Eye Dam.1; H318, Skin. Irrit. 2; H315

2.2 Label elements

Regulation (EG) No. 1272/2008

Hazard pictograms and signal word

GHS05: Corrosion



Signal word: **Attention**

Hazard statements

H315 Causes skin irritation

H318 Causes serious eye damage

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P262 Do not get in eyes, on skin, or on clothing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

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

2.3 Other Hazards

No additional remarks.

SECTION 3: Composition/information on ingredients

3.1 Substance

The product is a mixture.

3.2 Mixture

Composition/information on ingredients

CALCIUMHYDROXID; EG-No.: 215-137-3; CAS-No.: 1305-62-0; Amount: 45-60%

Classification according regulation (EG) No. 1272/2008: Skin Irrit. 2; H315, Eye Dam. 1; H319, STOT SE 3; H335

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.

Inhalation

Get the person into fresh air and stay with them. Get medical advice if respiratory irritation.

Skin contact

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap.

Eye contact

Remove contact lenses. Flush eyes with plenty of water for several minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. If eye irritation persists: Get medical advice/attention.

Ingestion

Do not induce vomiting. Rinse mouth with 1-2 glasses of water. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Fire fighting measures

5.1 Extinguishing media

Suited extinguishing media

The product is not flammable. The media should be match with the surrounding environment.

Unsuitable extinguishing media

Not determined.

5.2 Special hazards arising from the substance or mixture

Avoid inhalation of fumes.

5.3 Advice for firefighters

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothes-use suitable protective clothing

No special measures are necessary.

6.2 Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of a leakage to the surroundings, contact the local environmental authorities. pH-value increase!

6.3 Methods and material for containment and cleaning up

remove mechanically

6.4 Reference to other sections

See section 7,8 und 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid unnecessary exposure. See Section 8 for personal protective equipment. Wash exposed areas thoroughly after handling. Avoid skin and eye contact. Avoid breathing vapour and spray mist. Smoking, eating and drinking are not allowed in the rooms.

7.2 Conditions for safe storage, including any incompatibilities

Store at room temperature (20°C). The bottle should be tightly closed. Protect from frost.

7.3 Specific end use(s)

Additional remarks are written in the technical sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No special measures are necessary.

PNEC Water: 370µg/L

PNEC Ground/ Groundwater: 816µg/L

8.2 Exposure controls

Appropriate technical measures

Provide adequate ventilation.

Personal protective equipment

Personal protective equipment should be used depending on concentration and amount.

Respiratory protection

No special measures are necessary.

Hand protection

Only necessary if contact is frequently, wear long clothings.

Eye protection

Tightly sealed goggles. EN 166:2001

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Color white **Odour** characteristic **Appearance** fluid

| Parameter | Value |
|---|-------------------------------|
| pH-value (50 g/L H ₂ O; at 20°C) | 12,4 |
| Vapour pressure (at 20 °C) | Not determined |
| Flammability | Not determined |
| Flash point | Not determined |
| Odour threshold | Not determined |
| Water solubility (at 20°C) | 1,7 g/L |
| Lower explosion limit | Not determined |
| Upper explosion limit | Not determined |
| Oxidizing characteristics | Not determined |
| Density | Not determined |
| Boiling point | Not determined |
| Melting point | Not determined |
| Decomposition temperature | Not determined |
| Distribution coefficient n-octanol/water (K _{ow}) | Not determined |
| Viscosity dynamic (at 20°C) | Not determined |
| Decomposition temperature | >580°C |
| Explosive properties | The product is not explosive. |

9.2 Other information

There are no additional remarks.

SECTION 10: Stability and reactivity

10.1 Reactivity

No additional information available.

10.2 Chemical stability

The product is under normal conditions stable.

10.3 Possibility of hazardous reactions

No additional information available.

10.4 Conditions to avoid

Keep away from heat and frost.

10.5 Incompatible materials

Reacts with moisture and aluminum or brass under hydrogen development.

10.6 Hazardous decomposition products

No additional information available.

SECTION 11: Toxicological information

11.1 Information on Toxicological effects

a) Acute toxicity

Calciumhydroxid; LD50 oral rat 7340 mg/kg (GESTIS)

No additional information available.

b) Skin corrosion/irritation

Causes severe skin irritation.

c) Serious eye damage/irritation

Causes severe eye damage.

d) Respiratory or skin sensitisation

Not classified.

e) Germ cell mutagenicity

Not classified.

f) Carcinogenicity

Not classified.

g) Reproductive toxicity

Not classified.

h) Specific target organ toxicity - single exposure

Not classified.

i) Specific target organ toxicity - repeated exposure

Not classified.

j) Aspiration hazard

Not classified.

SECTION 12: Ecological information

12.1 Toxicity

Not toxic.

12.2 Persistence and degradability

The method for the determination of the biodegradability of surfactants is not usable for anorganic substances.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Solutions over 1 L should not be disposed into canalization system.

SECTION 14: Transport information

There are no special regulatory information.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not applicable.

15.2 Chemical safety assessment

Not done.

SECTION 16: Other information

Literature/Regulations

Regulation (EG) No. 1907/2006, changed 2016/2235

Regulation (EG) No. 1272/2008 (CLP), changed 2016/1179

Hazard statements of section 2 and 3.

Skin Irrit. 2; H315 – Skin irritation/corrosion. Category 2.
Causes skin irritation

Eye Dam. 1; H318 - Serious eye damage/ eye irritation Category 1.
Causes serious eye damage

The information contained is based on the present state of our knowledge and is intended to describe the product with regard to the safety precautions to be taken. They do not constitute a guarantee for the properties of the described product.

Legend

| | |
|-----------|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| AwSV | Ordinance on installations for the handling of substances hazardous to water |
| CAS | Chemical Abstracts Service |
| EG | European community |
| IATA/DGR | International Air Transport Association-Dangerous Goods Regulations |
| ICAO-TI | International Civil Aviation Organization-Technical Instructions |
| IMDG-Code | International Maritime Code for Dangerous Goods |
| LD | Lethal dose |
| PBT | Persistent, bioaccumulative, toxic |
| RID | Regulations concerning the international carriage of dangerous |
| UN | united nations |
| vPvB | very persistent and very bioaccumulative |