

Safety data sheet

according to regulation (EG) No. 1907/2006

Trade name: CaLoSiL® E 50

Revision: 02.08.2023

Into force on: 19.08.2022

Version: 2.1

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

1.1 Product identifier

CaLoSiL® E 50

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

Stone, plaster and mortar consolidation agent

1.3 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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

According regulation (EG) No. 1272/2008

Flam. Liq. 2; H225, Eye Dam. 1; H318, Skin. Irrit. 2; H315

2.2 Label elements

Regulation (EG) No. 1272/2008

Hazard pictograms and signal word

GHS02: Flame

GHS05: Corrosion



Signal word: Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation

H318 Causes serious eye damage

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

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

P264 Wash with water thoroughly after handling

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.

P337+P313 If eye irritation persists: Get medical advice/ attention.

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

ETHANOL; EG-No.: 200-578-6; Registration-No.: 01-2119457610-43-xxxx;

CAS-No.: 64-17-5; Amount: 80-90%

Classification according regulation (EG) No. 1272/2008: Flam. Liq 2; H225, Eye Irrit. 2; H319

CALCIUMHYDROXIDE; EG-No.: 215-137-3; CAS-No.: 1305-62-0; Amount: 3 -10%

Classification according regulation (EG) No. 1272/2008: Skin Irrit. 2; H315, Eye Dam. 1; H318, 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

Coordination disorder, reduced pain perception.

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

Water spray, alcohol-resistant foam, powder, CO₂

Unsuitable extinguishing media

Water jets should not be used, since they can spread the fire.

5.2 Special hazards arising from the substance or mixture

Flammable liquid. Avoid inhalation of fumes. Fire creates toxic gases. Vapours may form explosive mixtures with air. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus. Cooling of other endangered container, defeat evolving vapours with water; keep quench water away from drains, surface- and ground-water and soil.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid product contact and breathing organic solvent vapour. Do not stay in dangerous zone and use protection clothing. Keep away ignition sources.

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.

6.3 Methods and material for containment and cleaning up

For large amounts: Pump off product. For small amounts take up with inert absorbent and collect in suitable containers.

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. Keep away from sources of ignition - No Smoking. Avoid skin and eye contact. Avoid breathing vapour and spray mist. Smoking, eating and drinking are not allowed in the rooms. Product may charge electrostatically.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

Additional remarks are written in the technical sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

ETHANOL; EG-No.:200-578-6

Specification: TRGS 900 – occupational limit value (Stand 1/2006); value: 960 mg/m³

Peak limit: duration 15 minutes, mean value; 4 x per shift; time distance 1h, category II – substances with a resorptive effect. Teratogenic: Y substances, a risk of foetal damage can be eliminated even when AGW and BGW will be complied.

8.2 Exposure controls

Appropriate technical measures

Provide adequate ventilation.

Personal protective equipment

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

Respiratory protection

In case of inadequate ventilation use respiratory protection with filter type P2.

Hand protection

Use chemical resistant protective gloves (Nitril rubber standard EN 420 and EN 374). Gloves should be selected in consultation with the glove supplier, with information on effects from other chemical substances in the work place.

Eye protection

Tightly sealed goggles/face shield. EN 166:2001

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Color: white-grey

Odour: alcohol

Appearance: fluid

Parameter	Value
pH-value (50 g/L H ₂ O; at 20°C)	>11,5
Vapour pressure (at 20 °C)	58 hPa*
Flammability	400°C*
Flash point	17-20°C*
Odour threshold	Not determined
Water solubility (at 20°C)	Ethanol full miscible Ca(OH) ₂ 1,7 g/L
Lower explosion limit	3,1 Vol.-%; 59 g/m ³ *
Upper explosion limit	27,7 Vol.-%; 532 g/m ³ *
Oxidizing characteristics	Not determined
Density	0,79-0,83 g/cm ³
Boiling point	78°C*
Melting point	-114°C*
Decomposition temperature	700°C*
Distribution coefficient n-octanol/water (K _{ow})	-0,3*
Viscosity dynamic (at 20°C)	1-2 mPas
Decomposition temperature	Not determined

Parameter	Value
Explosive properties	The product is not explosive but possible formation of explosive air/vapour mixtures.

*concerning ethanol

9.2 Other information

There are no additional remarks.

SECTION 10: Stability and reactivity

10.1 Reactivity

Exothermic reaction with strong oxidizing and reducing agents. Uncontrolled reaction may cause a dangerous chemical reaction with the possibility of explosion.

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, sparks, flame and sources of ignition.

10.5 Incompatible materials

Different plastics and rubber is attacked.

10.6 Hazardous decomposition products

Decomposition can lead to the formation of toxic gases or fumes.

SECTION 11: Toxicological information

11.1 Information on Toxicological effects

a) Acute toxicity

Ethanol; LD50 oral rat 7060 mg/kg (GESTIS)

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

b) Skin corrosion/irritation

Causes severe skin irritation.

c) Serious eye damage/irritation

Causes severe eye irritation.

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

The product is considered as low hazardous to waters. (WGK 1)

12.2 Persistence and degradability

The method for the determination of the biodegradability of surfactants is not usable for anorganic substances. For ethanol the theoretical oxygen demand 2.

12.3 Bioaccumulative potential

Ethanol log K_{ow} -0,31

12.4 Mobility in soil

Fast evaporation of ethanol.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

Slightly hazardous for water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The product is covered by the regulations on dangerous waste. Solutions over 1 L should not be disposed into canalization system.

SECTION 14: Transport information

14.1 UN-Number: UN1170

14.2 UN proper shipping name

ADR/RID Ethanol, Solution

IMDG-Code/ICAO-TI/IATA-DGR Ethanol solution

14.3 Transport hazard class

ADR/RID/ IMDG-Code/ICAO-TI/IATA-DGR 3 (Flammable Liquid)

Pictogram: ADR/ IMDG-Code: No. 3

IATA-DGR: Abb. 7.3.H



14.4 Packing group: VP II

14.5 Environmental hazards: Nothing

14.6 Other information: tunnel restriction code: D/E

EmS: F-E S-D

See section 6-8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

EU-Regulation

- Regulation (EG) No. 1005/2009 (Substances that deplete the ozone layer):
Not applicable.
- Regulation (EG) No. 850/2004 (Persistent organic pollutants):
Not applicable.
- Regulation (EG) No. 649/2012 (Export and import of dangerous chemicals):
Not applicable.
- Regulation (EG) No. 648/2004 (Regulation on detergents):
Not applicable.

National Regulation

Water hazard class 1 according AwSV

Storage class 3

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.

Flam. Liq 2; H225 – Flammable liquid Category 2,
Highly flammable liquid and vapour.

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