

Safety Data Sheet

according to Regulation (EC) No. 1907/2006, Article 31

Print date: 31.07.2017

Revision date: 27.07.2016

Version 2

Part 1 of 8

1. Identification of the substance or preparation

1.1 **Product identifier:** FG 70-B Füll- und Zargengips

1.2 **Use of the substance/preparation:**

Construction product

1.3 **Company identification:**

VG-ORTH GmbH & Co. KG

Holeburgweg 24

D-37627 Stadtoldendorf

Telephone: +49 5532 505-0

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1.4 **Emergency telephone:**

Germany: Giftnotruf Berlin +49 30 – 19240

Giftinformationszentren <https://giftnotruf.charite.de>

2. Hazards Identification

2.1 **Classification of the mixture**

Classification according to Regulation (EC) No 1272 (CLP):



GHS 05 Corrosion

Category: eye damage 1

H 318 Causes serious eye damage

2.2 **Label elements**

Labeling according to Regulation (EC) No 1272/2008 [CLP]



GHS05

Signal word Danger

Substances in the mixture that contribute to the classification for labeling:

calcium dihydroxide

Hazard statement: H 318 Causes serious eye damage

Precautionary statement(s)

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

P305+P351+P338, P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P102: Keep out of reach of children.

P501: Dispose of contents/container according to national legislation.

Remark: P501 is not applicable for silos to be re-used.

2.3 **Other hazards**

Results of PBT- and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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3. Composition/ Information on ingredients

3.1 Chemical characterization:

Mixture of calcium dihydroxide and components (Calciumdihydroxid. mineral light aggregate, tenside, cellulose ether)

Hazardous ingredients:

| | | |
|--|--|----------------------------------|
| Calciumdihydroxid CAS Nr.: 1305-62-0 EINECS Nr.:215-137-3 Reg.-Nr: 01-2119475151-45 - xxxx | Eye Dam. 1, H315 Skin Irrit. 2, H318; H335  | ≥ 1% - < 10% und pH ≥ 11,5 |
|--|--|----------------------------------|

Further components

Calcium sulphate

CAS: 7778-18-9
EINECS: 231-900-3
Reg.-Nr.: 01-2119444918-26 - xxxx
Value: > 65 %

Bariumsulfat

CAS-Nr.: 7727-43-7
EINECS: 231-784-4
REACH Nr.: **Ausnahme Anhang V Art. 7**
Value: ≥ 20 %

4. First aid measures

4.1 Description of first aid measures

General notes:

No adverse effects are expected during normal use of the substance, however if any effects do appear the following recommendations apply.

After inhalation

Provide fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

After contact with the skin

Wash with plenty of water and soap. Clean contaminated clothing and shoes before use. If necessary seek medical advice.

After contact with the eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
Remove contact lenses if possible.

After ingestion

Rinse mouth immediately and drink plenty of water. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Risk of serious damage to eyes.

No known other specific symptoms or effects to date.

4.3 Indication of any immediate medical attention and special treatment

No further relevant information available.

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5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Other information

Product setting in contact with water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid dust formation.

Use personal protective equipment.

Product forms slippery surface when combined with water.

6.2 Environmental precautions

Do not allow to enter sewers / surface or ground water.

6.3 Methods and materials for retention and cleaning

6.3.1 Prevention of spread

All containers suitable for solids can be used.

6.3.2 Purification process

Pick up mechanically, dry and place in suitable containers for disposal.

6.3.3 More information

None.

6.4 Reference to other sections

Information to safe handling see chapter 7.

Information to personal protective equipment see chapter 8.

Information to disposal considerations see chapter 13.

7. Handling and storage

7.1 Precautions for safe handling

7.1.1 Recommendations for protective measures

No special provisions if the product is used appropriately.

Avoid:

Dust dispersion

Inhalation of dust/particles

Avoid contact with eyes and skin

Measures to prevent fire:

Product itself does not burn.

No special fire protection measures are necessary.

7.1.2 Advice on general occupational hygiene:

Do not to eat, drink and smoke in work areas. Wash hands after use.

Remove contaminated clothing and protective equipment before entering eating areas.

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: For safekeeping leave in original packaging.

Conditions for storage rooms and vessels: No special requirements.

7.3 Specific end use(s)

The specific end-use as indoor construction material is covered by the exposure scenarios of the ingredients calcium sulfate and calcium dihydroxide, both.

8. Exposure controls and personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

CAS-Nr.: 7778-18-9 Calciumsulfat (50 – 100 %)

AGW 6 mg/m³ A, DFG

CAS-Nr.: 1305-62-0 calcium dihydroxide (1 – 10 %)

PNEC water: 490 µg/l

PNEC soil/groundwater: 1080 mg/l

WEL Long-term value: 5 mg/m³

Remark A = alveolar fraction, E = inhalable fraction

CAS-Nr.: 7727-43-7 Bariumsulfat (1 – 20 %)

AGW 3 mg/m³ A, DFG

8.2 Exposure controls

General protective and hygienic measures

Avoid contact with the eyes and skin.

Do not inhale dust/ smoke.

Preventive skin protection by skin ointment.

Wash hands after use.

Personal protective equipment

Respiratory protection:

Required when dusts are generated Filter FFP2

Hand protection:

By long-term hand contact wear protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves: Cotton gloves impregnated with nitrile.

Penetration time of glove material:

The exact breakthrough time is only available from glove producers.

Eye protection: In case of product splashes use protective glasses.

Body protection: Protective work clothing

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|------------------------------|
| Form: | powder |
| Colour: | white, white-grey |
| Odour: | odourless |
| Odour threshold: | not applicable |
| pH-value | Solubility in water: 10 – 12 |
| Melting point / freezing point: | not applicable. |
| Initial boiling point and boiling range: | not applicable. |
| Flash point: | not applicable. |
| Evaporation rate: | not applicable. |

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| | |
|----------------------------|-----------------------------|
| Flammability (solid, gas): | not flammable. |
| Vapour pressure: | not applicable. |
| Vapour density: | not applicable. |
| relative density | 2,3 - 3,0 g/cm ³ |
| Water solubility | ca. 2 g/l at 20°C |

9.2 More information

Thermal decomposition of gypsum:
CaSO₄ x 1/2 H₂O and H₂O ca. 140°C
CaO and SO₃ ca. 1000°C

10. Stability and reactivity

10.1 Reactivity

No materials known.

10.2 Chemical stability

The mixture is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

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 incompatible materials known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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11. Toxicological Information

11.1 Information on toxicological effects

Data based on the mixture

| Toxicity endpoints | Results |
|--|--|
| Acute toxicity | Available data do not lead to a classification of the mixture. The mixture is not acute toxic according to the evaluation of data for calcium sulfate and calcium. |
| Skin corrosion/irritation | Available data do not lead to a classification of the mixture. The result of a study on the mixture of calcium sulfate and calcium dihydroxide does not result in acute skin corrosion/irritation. Remark: Frequent or prolonged exposure, eventually strengthened by mechanically effects, could lead to skin irritation. |
| Eye damage/irritation | As a result of studies (in vivo, rabbit) calcium dihydroxide causes serious eye damage (H318 – Causes serious eye damage). (Calculation based on the concentrations of the ingredients.) |
| Respiratory or skin sensitisation | Available data do not lead to a classification of the mixture. The mixture is not a skin / respiratory sensitizer according to the data on calcium sulfate and calcium dihydroxide. |
| Germ cell mutagenicity | Available data do not lead to a classification of the mixture. The mixture is not mutagenic according to the data on calcium sulfate and calcium dihydroxide. |
| Carcinogenicity | Available data do not lead to a classification of the mixture. The mixture does not pose any risk of carcinogenicity according to the data on calcium sulfate and calcium dihydroxide. |
| Reproductive toxicity | Available data do not lead to a classification of the mixture. The mixture does not show any signs of reproductive toxicity according to the data on calcium sulfate and calcium dihydroxide. |
| STOT-single exposure | Available data do not lead to a classification of the mixture. (Calculation based on the concentrations of the ingredients.) |
| STOT-repeated exposure | Available data do not lead to a classification of the mixture. |
| Aspiration hazard | Available data do not lead to a classification of the mixture. |

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity

No relevant information available.

12.2 Persistence and degradability

No photo-chemical elimination.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

Water-soluble solid.

Do not allow product to reach ground water, water course or sewage system.

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12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

13. DISPOSAL CONSIDERATIONS

13.1 Product:

EAK/AVV waste code:

17 08 02 Building material made of gypsum, with the exception of those falling under 17 08 01

17 09 04 Mixed construction and demolition waste with the exception of those falling under 17 09 01,

17 09 02 and 17 09 03

13.2 Packaging:

Non-contaminated, completely emptied packages may be recycled.

P501: Dispose of contents/container according to national legislation.

14. Transport information

No dangerous good in the sense of these transport regulations.

14.1 **UN number:** None.

14.2 **UN proper shipping name:** Not applicable.

14.3 **Transport hazard class:** Not applicable.

14.4 **Packing group:** Not applicable.

14.5 **Environmental hazards:** None.

14.6 **Special precautions for user:** None.

14.7 **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

15. Regulatory information

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

Guideline 2012/18/EU

National legislation:

Germany Water hazard class (WGK): slightly hazardous to water (WGK 1)

Chemical Safety Assessment:

The chemical safety assessments on the substances calcium sulfate and calcium dihydroxide have been considered for this data sheet.

16. Other Information

Indication of changes

Classification according to regulation (EC) 1207/2008

Abbreviations and acronyms

GHS/CLP: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

Relevant R-phrases and/or H-statements (number and full text)

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

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Relevant S-phrases and/or P-statements (number and full text)

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

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P310 Immediately call a POISON CENTER or doctor/physician.

P102: Keep out of reach of children

P501: Dispose of contents/container according to national legislation.

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Further information

Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship.