

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

1.1 Product identifier

Zemseal®Flex Paste, Komp. B, Pulver
Article number: ZSFLEX

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

1.2.1 Relevant uses

Cement

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Max Frank GmbH & Co. KG
Mitterweg 1
94339 Leiblfing / GERMANY
Phone +49 (0)9427 189-234
Fax +49 (0)9427 189-275
Homepage www.maxfrank.com
E-mail info@maxfrank.de

Address enquiries to

Technical information

info@maxfrank.de

Safety Data Sheet

sicherheitsdatenblatt@maxfrank.de

1.4 Emergency telephone number

Advisory body

+49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Eye Dam. 1: H318 Causes serious eye damage.
Skin Irrit. 2: H315 Causes skin irritation.

2.2 Label elements

Hazard pictograms



Signal word

DANGER

Contains:

Cement, portland, chemicals

Hazard statements

H318 Causes serious eye damage.
H315 Causes skin irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves / eye protection.
P305+P351+P338 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 / doctor.
P321 Specific treatment (see on this label).
P332+P313 If skin irritation occurs: Get medical advice / attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/national regulation.

2.3 Other hazards

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients
3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

| Range [%] | Substance |
|-------------|---|
| 70 - < 100% | Quartz |
| | CAS: 14808-60-7 |
| 10 - < 20 | Cement, portland, chemicals |
| | CAS: 65997-15-1 |
| | GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H312 - Acute Tox. 4: H332 - Skin Irrit. 2: H315 - STOT SE 3: H335 |
| 1 - < 1,5 | Natriumaluminat |
| | CAS: 11138-49-1 |
| | GHS/CLP: Skin Corr. 1A: H314 |

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures
4.1 Description of first aid measures
General information

Change powdered clothing.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Consult a doctor immediately.

Ingestion

Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.
Get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Risk of serious damage to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures
5.1 Extinguishing media
Suitable extinguishing media

Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use breathing apparatus if exposed to dust.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Avoid production of dust.
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Provide vacuuming if dust raised.
Avoid contact with eyes and skin. Use personal protective equipment.

Wash hands before breaks and after work.
Remove soiled or soaked clothing.
Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store together with food and animal food/diet.
Store in a dry place.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

| |
|---|
| Substance |
| Quartz |
| CAS: 14808-60-7 |
| Long-term exposure: 0,1 mg/m ³ , respirable, crystalline |
| Cement, portland, chemicals |
| CAS: 65997-15-1 |
| Long-term exposure: 10 mg/m ³ , inhalable dust; respirable dust: TWA=4 mg/m ³ |

DNEL

| |
|---|
| Substance |
| Cement, portland, chemicals, CAS: 65997-15-1 |
| Industrial, inhalative, Long-term - systemic effects, 1 mg/m ³ |

PNEC

| |
|--|
| Substance |
| Natriumaluminat, CAS: 11138-49-1 |
| sewage treatment plants (STP), 10 mg/L |

8.2 Exposure controls

| | |
|--|--|
| Additional advice on system design | Ensure adequate ventilation on workstation. Pay attention to dust limit value (ACGIH-2011: 10 mg/m ³ particle inhalable; 3 mg/m ³ particle respirable). |
| Eye protection | Tightly fitting goggles (EN 166:2001). |
| Hand protection | 0,4 mm; butyl rubber, > 120 min (EN 374) The details concerned are recommendations. Please contact the glove supplier for further information. |
| Skin protection | Protective clothing (EN 340) |
| Other | Avoid contact with eyes and skin. |
| Respiratory protection | Respiratory protection in the case of dust formation. Use Safety mask. (DIN EN 149) |
| Thermal hazards | none |
| Delimitation and monitoring of the environmental exposition | Comply with applicable environmental regulations limiting discharge to air, water and soil. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|---------------------------|
| Physical state | powder |
| Color | grey |
| Odor | odourless |
| Odour threshold | not determined |
| pH-value | not determined |
| pH-value [1%] | not determined |
| Boiling point [°C] | not applicable |
| Flash point [°C] | not applicable |
| Flammability (solid, gas) [°C] | not applicable |
| Lower explosion limit | not applicable |
| Upper explosion limit | not applicable |
| Oxidising properties | no |
| Vapour pressure/gas pressure [kPa] | not applicable |
| Density [g/cm³] | not determined |
| Relative density | not determined |
| Bulk density [kg/m³] | not determined |
| Solubility in water | not applicable |
| Solubility other solvents | No information available. |
| Partition coefficient [n-octanol/water] | not applicable |
| Kinematic viscosity | not applicable |
| Relative vapour density | not applicable |
| Evaporation speed | not applicable |
| Melting point [°C] | not determined |
| Auto-ignition temperature | not applicable |
| Decomposition temperature [°C] | not determined |
| Particle characteristics | No information available. |

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

| |
|---|
| Product |
| ATE-mix, oral, Based on the available information, the classification criteria are not fulfilled. |
| Substance |
| Quartz, CAS: 14808-60-7 |
| LD50, Intravenous, > 2000 mg/kg |

Acute dermal toxicity

| |
|---|
| Product |
| ATE-mix, dermal, Based on the available information, the classification criteria are not fulfilled. |
| Substance |
| Quartz, CAS: 14808-60-7 |
| no adverse effect observed |
| Cement, portland, chemicals, CAS: 65997-15-1 |
| LD50, dermal, Rabbit, 2000 mg/kg |

Acute inhalational toxicity

| |
|---|
| Product |
| ATE-mix, inhalative, Based on the available information, the classification criteria are not fulfilled. |
| Substance |
| Quartz, CAS: 14808-60-7 |
| no adverse effect observed |
| Cement, portland, chemicals, CAS: 65997-15-1 |
| LC50, inhalative, Rat, 50 mg/L (4h) |

Serious eye damage/irritation

Risk of serious damage to eyes.
Based on the available information, the classification criteria are fulfilled.
Calculation method

| |
|--|
| Substance |
| Quartz, CAS: 14808-60-7 |
| OECD 405, non-irritating |
| Cement, portland, chemicals, CAS: 65997-15-1 |
| No information available. |
| gefahr ernster Augenschäden |
| Natriumaluminat, CAS: 11138-49-1 |
| No information available. |

Skin corrosion/irritation

Irritant
Based on the available information, the classification criteria are fulfilled.
Calculation method

| |
|--|
| Substance |
| Quartz, CAS: 14808-60-7 |
| OECD 404, non-irritating |
| Cement, portland, chemicals, CAS: 65997-15-1 |

| |
|----------------------------------|
| No information available. |
| reizend |
| Natriumaluminat, CAS: 11138-49-1 |
| No information available. |
| Ätzend für die Haut |

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

| |
|--|
| Substance |
| Quartz, CAS: 14808-60-7 |
| no adverse effect observed |
| Cement, portland, chemicals, CAS: 65997-15-1 |
| No information available. |
| Natriumaluminat, CAS: 11138-49-1 |
| No information available. |
| negativ |

Specific target organ toxicity — single exposure Based on the available information, the classification criteria are not fulfilled.

| |
|--|
| Substance |
| Quartz, CAS: 14808-60-7 |
| no adverse effect observed |
| Cement, portland, chemicals, CAS: 65997-15-1 |
| No information available. |
| Natriumaluminat, CAS: 11138-49-1 |
| No information available. |

Specific target organ toxicity — repeated exposure Based on the available information, the classification criteria are not fulfilled.

| |
|--|
| Substance |
| Cement, portland, chemicals, CAS: 65997-15-1 |
| No information available. |
| Natriumaluminat, CAS: 11138-49-1 |
| No information available. |
| negativ |
| NOAEL, oral, Rat, 322,5 mg/kg bw/day |

Mutagenicity Based on the available information, the classification criteria are not fulfilled.

| |
|--|
| Substance |
| Quartz, CAS: 14808-60-7 |
| in vitro, no adverse effect observed |
| Cement, portland, chemicals, CAS: 65997-15-1 |
| No information available. |
| Natriumaluminat, CAS: 11138-49-1 |
| No information available. |
| negativ |

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled.

| |
|-----------|
| Substance |
|-----------|

| |
|--|
| Quartz, CAS: 14808-60-7 |
| no adverse effect observed |
| Cement, portland, chemicals, CAS: 65997-15-1 |
| No information available. |
| Natriumaluminat, CAS: 11138-49-1 |
| No information available. |
| negativ |

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

| |
|--|
| Substance |
| Cement, portland, chemicals, CAS: 65997-15-1 |
| No information available. |
| Natriumaluminat, CAS: 11138-49-1 |
| No information available. |
| negativ |

Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

SECTION 12: Ecological information
12.1 Toxicity

| |
|---|
| Substance |
| Natriumaluminat, CAS: 11138-49-1 |
| LC50, (96h), fish, 111 mg/L |
| LC50, (96h), Gambusia affinis, 111 mg/L |

12.2 Persistence and degradability
Behaviour in environment compartments

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

The product is not biodegradable.

12.3 Bioaccumulative potential

No evidence for bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.
 Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with national regulations.

Product

Dispose of as hazardous waste.

Contaminated packaging

Contaminated packing should be disposed of as product waste.

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- VOC (2010/75/CE) not applicable

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 IVIS = In vitro irritation score
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LL50 = Median lethal loading
 LQ = Limited Quantities
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV®/TWA = Threshold limit value – time-weighted average
 TLV®STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.2 Other information

Classification procedure

Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

Modified position

none