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

1.1 Product identifier

Trade name: Rotkalk Finish

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

No further relevant information available.

Application of the substance / the preparation: Mortar, adhesive, screed, concrete.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Knauf Gips KG
Postfach 10
97343 Iphofen
Deutschland
Tel +49 (0)9323/31 - 0
Fax +49 (0)9323/31 - 277

Further information obtainable from:
Technical information service
Tel +49 (0)9001/31-2000 (see point 16)
E-mail Knauf-Direkt@Knauf.de

1.4 Emergency telephone number:
Hotline for symptoms of poisoning and embryonic toxicology, Berlin
Tel +49 (0)30-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS05  GHS07

Signal word Danger

Hazard-determining components of labelling:
Cement, portland, chemicals
Trade name: Rotkalk Finish

calcium dihydroxide

Hazard statements
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary statements
P102 Keep out of reach of children.
P261 Avoid breathing dust.
P280 Wear protective gloves/protective clothing/eye protection/face 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 or doctor/physician.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:
When properly stored dry, low in chromate for at least 12 months from date of manufacture.

2.3 Other hazards
The mixture produces an alkaline reaction when exposed to moisture. Please take this into consideration when processing the material and avoid extended contact with the skin or make sure to wear gloves.

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

Chemical characterisation: Mixtures
Description: Dry mortar made up of mineral bonding agents, aggregates and additives.

Dangerous components:
CAS: 65997-15-1 Cement, portland, chemicals 5-50%
EINECS: 266-043-4 Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335
CAS: 1305-62-0 calcium dihydroxide 5-50%
EINECS: 215-137-3 Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335
Reg.nr.: 01-2119475151-45-XXXX 3, H335

Additional information: For the wording of the listed risk phrases refer to section 16.
Remark:
The hazard declaration "irritant" does not apply to dry powder but only to the admittance of moisture or water (alkaline reaction).
Low in chromate according to EU-Regulation 1907/2006 (REACH).
Materials with a threshold value for exposure in the workplace – see point 8.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information: Change any soiled or impregnated clothing.

After inhalation:
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. (P304+340)
Seek medical treatment in case of complaints.
Trade name: Rotkalk Finish

After skin contact:
IF ON SKIN: Wash with plenty of soap and water. (P302+352b)
If skin irritation occurs: Get medical advice/attention. (P332+313)

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

After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
After eye contact: Causes serious eye damage.
Irritating to respiratory system and skin.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

*SECTION 5: Firefighting measures*

General information:
Product itself does not burn.
For surrounding fires following points should be observed.

5.1 Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents:
Do not use water to extinguish surrounding fires because the calcium oxide that forms may react to the water as heat develops.

5.2 Special hazards arising from the substance or mixture
The calcium hydroxide breaks down into calcium oxide and water if heated to over 580 °C.

5.3 Advice for firefighters
Protective equipment: Wear self-contained respiratory protective device.
Additional information
The product is not flammable.
Product corroborates upon contact with water.

*SECTION 6: Accidental release measures*

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing.
Ensure adequate ventilation
Do not inhale dust.

6.2 Environmental precautions: Do not allow to enter sewers / surface or ground water.

6.3 Methods and material for containment and cleaning up:
Avoid formation of dust.
Pick up (dry) mechanically.

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
Avoid contact with the eyes and skin.
Prevent formation of dust.
Do not inhale dust.
Ensure good ventilation / exhaustion at the workplace.
Wash thoroughly after handling. (P264)
Take off contaminated clothing and wash before reuse. (P362)

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility: Do not store together with acids.

Further information about storage conditions:
Store in dry conditions.
Keep container tightly sealed.

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

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
CAS: 65997-15-1 Cement, portland, chemicals (5-50%)
WEL Long-term value: 10* 4** mg/m³
  *inhalable dust **respirable dust
CAS: 1305-62-0 calcium dihydroxide (5-50%)
WEL Long-term value: 5 mg/m³

General dust: 1.25 mg/m³ A (DE) 4 mg/m³ A (GB), 10 mg/m³ E (GB, DE)
Remark A = alveolar fraction, E = inhalable fraction

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
General protective and hygienic measures:
Avoid contact with the eyes and skin.
Use skin protection cream for skin protection.
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.

Respiratory protection: Wear dust mask FFP2 if dust forms.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
After use of gloves apply skin-cleaning agents and skin cosmetics.
Trade name: Rotkalk Finish

Material of gloves: Cotton gloves impregnated with nitrile.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Eye glasses with side protection.

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information
Appearance:
Form: Powder
Colour: White, grey, or colored.
Odour: Light earthy odor.
Odour threshold: Not determined.
pH-value: 11-13 (saturated solution) at 25 °C

Change in condition
Melting point/Melting range: Not applicable.
Boiling point/Boiling range: Not applicable.
Flash point: Not applicable.
Flammability (solid, gaseous): Not applicable.
Ignition temperature: Not applicable.
Decomposition temperature: 580 °C (break down into CaO and H2O)
Self-igniting: Product is not selfigniting.
Danger of explosion: Product does not present an explosion hazard.
Vapour pressure: Not applicable.
Density: Not determined.
Bulk density: 600-1500 kg/m³
Relative density: Not determined.
Vapour density: Not applicable.
Evaporation rate: Not applicable.

Solubility in / Miscibility with water: for Ca(OH)₂ 1.650 mg/l at 20 °C

Partition coefficient (n-octanol/water): Not applicable.

Viscosity:
Dynamic: Not applicable.
Kinematic: Not applicable.

9.2 Other information
No further relevant information available.
SECTION 10: Stability and reactivity

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions
No dangerous reactions known.

10.4 Conditions to avoid
Avoid damp conditions.

10.5 Incompatible materials:
Cement and/or calcium hydroxide react with aluminum and brass when water is added through the formation of hydrogen.

10.6 Hazardous decomposition products:
No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity
Primary irritant effect:
Skin corrosion/irritation
Irritant to skin and mucous membranes.
Serious eye damage/irritation
Strong irritant with the danger of severe eye injury.
Respiratory or skin sensitisation
No sensitising effects known.

Additional toxicological information:
Dusts could cause irritation to the upper respiratory system.
Sustained and repeated inhalation of the dust could cause damage to the respiratory system.
Ingestion of larger quantities can cause irritation to the digestive tract.
Serious skin damage could be the result of this product being in contact with the skin for prolonged periods when the skin is moist.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.

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.

Additional ecological information:
General notes:
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects
No further relevant information available.
SECTION 13: Disposal considerations

13 Waste treatment methods
Recommendation Disposal must be made according to official regulations.
European waste catalogue
17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
Uncleaned packaging:
Recommendation:
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA Void
14.2 UN proper shipping name
ADR, IMDG, IATA Void
14.3 Transport hazard class(es)
ADR, IMDG, IATA Void
14.4 Packing group
ADR, IMDG, IATA Void
14.5 Environmental hazards:
Not applicable.
14.6 Special precautions for user
Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.
UN "Model Regulation": -

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations:
Waterhazard class:
Water hazard class 1 (VwVwS Germany 17.05.1999): slightly hazardous for water.
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
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Department issuing MSDS: Knauf Gips KG, Abteilung Nachhaltigkeit und REACH, 97343 Iphofen
Contact:
Technical information service (see point 1)
A call to Knauf Direkt will be charged at 0.39 € per minute. Callers, the telephone numbers of whom
are not saved in the Knauf Gips KG address database, e.g. private property owners or non-customers, will pay 1.69 € per minute from the German network. Callers using mobile telephones will be charged according to the network provider and tariff.

**Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
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)
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

* Data compared to the previous version altered.