

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

1.1 Product identifier

Trade name: Rifino Top

1.2 Relevant identified uses of the mixture and uses advised against

Uses of the substance/mixture: Building product

1.3 Details of the supplier of the product information and processing instructions

Manufacturer/Supplier

SAINT-GOBAIN RIGIPS GmbH

Willstätterstraße 60

40549 Düsseldorf

Germany

National contact

SAINT-GOBAIN RIGIPS GmbH - Ladenburg Development Center – Gypsum Development

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Germany

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2 Hazards identification

2.1 Classification of the substance or mixture

Not classified according to regulation (EC) No. 1272/2008.

Nevertheless, please note this product information.

2.2 Label elements

No labelling according to regulation (EC) No. 1272/2008.

Hazard pictograms: Not applicable

Signal word: Not applicable

Hazard statements: Not applicable

2.3 Other hazards

None.

3 Composition / information on ingredients

Chemical characterization: Mixtures

Description: Mixture of calcium sulphate of different hydrate levels with additives such as mineral fillers, additives, polymer powders.

Hazardous ingredients

Not applicable. The products do not contain any SVHC or CMR substances (carcinogenic, mutagenic, reprotoxic substances) >0.1% (REACH regulation).

Ingredients with a specific exposure limit (see point 8)

Calcium sulphate

| | Anhydrite | Hemihydrate | Dihydrate | Gypsum |
|---------------|-----------|-------------|------------|------------|
| CAS no. | 7778-18-9 | 10034-76-1 | 10101-41-4 | 13397-24-5 |
| EC / List no. | 231-900-3 | 600-067-1 | 600-148-1 | 603-783-2 |

REACH registration no.: 01-2119444918-26-XXXX

4 First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Wash off with water and soap and rinse again.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Rinse out mouth and then drink plenty of water. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions

For safety reasons unsuitable extinguishing agents: Full water jet.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

- Sulphur oxide
- Smoke

5.3 Advice for firefighting

Protective equipment: Wear self-contained breathing apparatus for larger fires.

Additional information: The product is not flammable. Product sets/hardens in contact with water.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation and contact with eyes and skin.

Product forms slippery surface when combined with water.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Avoid dust formation; pick up the dry material 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.

7 Handling and storage

7.1 Precautions for safe handling

Avoid dust formation. Do not inhale dust. Avoid skin contact.

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: No special requirements.

Information about storage in one common storage facility: Not required.

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

Storage class: LGK (according to VCI-Concept): 13 - non-combustible solids.

7.3 Specific end use(s)

Not relevant.

8 Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace (Occupational exposure limits)

Calcium sulphate all hydrate levels (CAS 7778-18-9, 10034-76-1, 10101-41-4, 13397-24-5):
MAK value: 4 mg/m³ E

General dust limit value: TRGS 900: 10 mg/m³ E; 1.25 mg/m³ A

Note: 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: The usual precautionary measures are to be adhered to when handling chemicals.

Personal protection equipment:

Respiratory protection: Wear dust mask FFP1 in accordance with EN 149 if dust develops.

Protection of hands: Wear protective gloves in accordance with EN 374 and EN 388 for prolonged or repeated contact.

Glove material: Nitrile soaked cotton gloves.

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

Eye protection: Wear safety goggles with side protection in accordance with EN 166 if dust develops.

Body protection: Protective working clothing.

9 Physical and chemical properties

9.1 Information in basis physical and chemical properties

General information:

| | |
|------------------------------------|-------------------------------|
| Physical state: | Solid, Crystalline powder |
| Colour: | white, yellowish, white-beige |
| Odour: | Odourless. |
| Odour threshold: | Not determined. |
| Melting point / melting range: | Not applicable |
| Boiling temperature/boiling range: | Not applicable |
| Flammability (solid, gaseous): | Not applicable |
| Lower explosion limit: | Not determined |
| Upper explosion limit: | Not determined |
| Flash point: | Not applicable |
| Auto-ignition temperature: | Not applicable |
| Decomposition temperature: | Not determined |

| | |
|--|---|
| pH-value: | Not applicable in the supplied state, suspension 7-9. |
| Kinematic Viscosity: | Not applicable |
| Dynamic Viscosity: | Not applicable |
| Solubility in/Miscibility with water: | approx. 2 g/l (calcium sulphate x 2H ₂ O) at 20 °C |
| Partition coefficient (n-octanol/water): | Not applicable |
| Vapor pressure at 20°C: | Not applicable |
| Density: | Not determined |
| Relative density: | Not determined |
| Bulk density: | Not determined |
| Vapor density: | Not applicable |

9.2 Other information

| | |
|----------------------|--|
| Form: | Powder |
| Self-igniting: | Product is not self-igniting |
| Danger of explosion: | Product does not present an explosion hazard |
| Evaporation rate: | Not applicable |

Thermal decomposition of gypsum

to CaSO₄ and H₂O at 140°C
to CaO and SO₃ at 1000°C

10 Stability and Reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition/conditions to be avoided: Do not store above 40°C. Avoid damp conditions.

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 further relevant information available.

10.6 Hazardous decomposition products

No decomposition if used according to specifications.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met.

Primary irritant effect

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiration of skin sensitisation: Based on available data, the classification criteria are not met.

Additional toxicological information: Non-toxic.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

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 Bio accumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Additional ecological information:

General notes: Do not allow product 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 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods

Recommendation: Disposal must be made according to official regulations.

European waste catalogue

17 01 07 mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06

17 08 02 gypsum-based construction materials other than those mentioned in 17 08 01

17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

Recommendation

The mentioned waste-classes are only an advice because according to EC-Law the waste-class must be defined by the origin of the waste. The correct waste code may differ and must be classified by the waste owner. The waste-disposer and the municipal waste offices will help.

Observe local regulations and laws!

Uncleaned packaging

Recommendation: Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning.

14 Transport information

14.1 UN number

ADR, IMDG, IATA: No dangerous goods, information not applicable.

14.2 UN proper shipping name

ADR, IMDG, IATA: No dangerous goods, information not applicable.

14.3 Transport hazard class(es)

ADR, IMDG, IATA: No dangerous goods, information not applicable.

14.4 Packing group

ADR, IMDG, IATA: No dangerous goods, information not applicable.

14.5 Environmental hazards

ADR, IMDG, IATA: No dangerous goods, information not applicable.

IMDG: Not marine pollutant.

14.6 Special precautions for user

Not applicable.

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

National regulations

Water hazard class (according to German law): WGK 1 - slightly water hazardous
(Classification according to VwVwS, Annex 4)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16 Other information

List of relevant hazard statements: None.

Indication of changes: None.

Department issuing this information

SAINT-GOBAIN RIGIPS GmbH, Ladenburg Development Center, 68526 Ladenburg

Point of contact: See section 1.

Further information

The information is based on our current state of knowledge.

It describes the product exclusively regarding safety requirements and does not constitute a guarantee of the properties of the product described.

They may not be changed or transferred to other products.

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) |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society) |
| CMR: | Carcinogenic, mutagenic, reprotoxic substances |
| EINECS: | European Inventory of Existing Commercial Chemical Substances |
| IMDG: | International Maritime Code for Dangerous Goods |
| IATA: | International Air Transport Association |
| MAK: | Maximale Arbeitsplatzkonzentration (Maximum workplace concentration) according to the list of the German Research Foundation (www.dfg.de/mak) |
| PBT: | Persistent, Bio accumulative and Toxic |
| vPvB: | very Persistent and very Bio accumulative |
| SVHC: | Substances of Very High Concern (REACH) |

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances), Germany

