

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

Product identifier

Trade name: Rifix ThermoPlus

Relevant identified uses of the mixture and uses advised

Uses of the substance/mixture: building material

Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Saint-Gobain Rigips GmbH
Schanzenstraße 84
D-40549 Düsseldorf
Germany

National contact:

Saint-Gobain Rigips GmbH - Ladenburg Development Center – Gypsum Development
Dr.-Albert-Reimann-Straße 20
D – 68526 Ladenburg
+49(0)621-4701691
Email forschung-entwicklung@rigips.de

Emergency telephone number:

Tel +49 (0)621 4701691 (only at daily working-times)

European Emergency Number: 112

2 Hazards identification

Classification of the substance or mixture

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

Results of in vitro-tests have shown that cement based mixtures with more than 1% of cement cause serious skin irritation and serious eye damage, therefore the classification of these mixtures regarding H315 und H318 is not based on the calculation of the ingredients or the pH in this case



Hazard pictogram:

GHS 05

Eye Dam. 1 H318 Causes serious eye damage



Hazard pictogram

GHS07

Skin Irrit. 2 H315 Causes skin irritation

STOT SE 3 H335 May cause respiratory irritation

Label elements

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

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

Hazard pictograms



Signal word Danger

Hazard-determining components of labelling: cement portland, grey

Hazard statement(s):

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

Precautionary statements

P101: If medical advice is needed, have product container or label at hand
P102: Keep out of reach of children
P103: Read label before use
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: If on skin: Wash with plenty of water
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
P310: Immediately call a poison center or doctor/physician
P362: Take off contaminated clothing
P501: Dispose of contents/container in accordance with local/regional/national/international legislation.

2.3 Other hazards

Results of PBT- and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: mixture

Description: Ready-mixed mortar with Portland cement

Dangerous components		
CAS: 65997-15-1 EINECS: 266-043-4	cement portland, grey ☞ Eye Dam. 1, H318; ☞ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	25-50 %
CAS: 68475-76-3 EINECS: 270-659- Reg.nr.:01- 2119486767-17-xxxx	Flue dust, portland cement ☞ Eye Dam. 1, H318; ☞ Skin Irrit. 2, H315; Skin Sens.1, H317, STOT SE 3, H335	0,1-1% %

SVHC Void

Additional information:

The mixture is "low chromate" according to the Regulation (EC) No 1272/2008 within the product shelf-life, so that the classification with H317 is not applicable, when the packing was not opened in the meantime.

For the wording of the listed risk phrases refer to section 16.

4 First aid measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult doctor. Rinse liquid should be tempered (20-30 °C).

After swallowing:

Rinse out mouth with water. Do not induce vomiting. Seek medical attention and present this data sheet.

Most important symptoms and effects, both acute and delayed

No further relevant information available

Indication of any immediate medical attention and special treatment needed

No further relevant information available

5 Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use fire extinguishing methods suitable to surrounding conditions.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters:

Protective equipment: Use methods suitable to surrounding conditions

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Avoid formation of dust.

Ensure adequate ventilation

Environmental precautions:

Do not allow product to reach sewage or any water course

Methods and material for containment and cleaning up:

- Pick up mechanically
- Dispose of the material collected according to regulations

Reference to other sections

- See Section 13 for disposal information

7 Handling and storage

Precautions for safe handling

- Prevent formation of dust
- Provide suction extractors if dust is formed

Information about fire – and explosion protection: No special measures required

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles

- Store only in the original receptacle
- Store in a cool location

Information about storage in one common storage facility:

- Do not store together with acids.
- Store away from foodstuffs.

Further information on storage conditions:

- Store in cool, dry conditions in well sealed receptacles.
- Protect from humidity and water.

Specific end use(s)

- No further relevant information available.

8 Exposure controls/personal protection

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

Control parameters

Ingredients with limit values that require monitoring at the workplace:

Additional information:

- The applicable TRGS 900 (MAK list; Germany) was used as the basis for the preparation and/or revision of this safety data sheet.

Exposure controls

Personal protective equipment:

General protection and hygiene:

- The usual precautionary measures are to be adhered to when handling chemicals.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of the work.
- Avoid contact with the eyes and skin.
- Use a moisturizing skin cream after processing the product.

Respiratory protection:

- Not necessary if room is well-ventilated.
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Short term filter device: Filter P2

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.

Material of gloves:

Nitrile impregnated cotton gloves.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

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: Tightly sealed goggles.

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance:

- **Physical state:** Powder

- **Colour:** grey

Odour: Odourless

Odour threshold: Not determined

pH-value at 20 °C:	> 12,0 (DIN 19261) In water
Change in condition	
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	Undetermined
Flash point:	Not applicable
Flammability (solid, gaseous):	Product is not flammable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Self-igniting:	Product is not selfigniting
Danger of explosion:	Product does not present an explosion hazard
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Oxidising properties:	Not determined
Vapour pressure:	Not applicable
Density:	Not applicable
Bulk density at 20 °C:	1400 kg/m ³
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Solubility in/Miscibility with Water at 20 °C:	1,5 g/l Zement
Segregation coefficient (n-Octanol/water) logPow	Not determined
Viscosity: dynamic:	Not applicable

kinematic:	Not applicable
Solvent content:	
Organic solvents:	0,0 %
EU-VOC:	0,00 %
Solids content:	100,0 %
Other information:	None

10 Stability and Reactivity

Reactivity

No further relevant information available

Chemical stability

Thermal decomposition/Conditions to be avoided:

No decomposition if used according to specifications

Possibility of hazardous reactions

Reacts with acids

Reacts with light alloys in the presence of moisture to form hydrogen

Conditions to avoid: No further relevant information available

Incompatible materials: No further relevant information available

Hazardous decomposition products: No hazardous decomposition products known.

11 Toxicological information

Information on toxicological effects

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

LD/LC50 values relevant for classification

Components	Type	Value	Species
CAS 65997-15-1 cement portland, grey			
Dermal	LD50	>2,000mg/kg (rabbit)	

Primary irritant effect:

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/irritation: Causes serious eye damage

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met

CMR effects (carcinogenicity, mutagenicity, and toxicity for reproduction):

Germ cell mutagenity:

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:

May cause respiratory irritation

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

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: The product is not biodegradable

Bioaccumulative potential: No further relevant information available

Behavior in environmental systems:

Mobility in soil: No further relevant information available

Ecotoxicological effects:

Remark:

The product contains substances which causes severe clouding in water

The product contains substances which cause a local pH change and thus have a detrimental effect on fish and bacteria.

Remark: The product causes a significant pH change. Neutralise before introduction.

General notes: Do not allow product to reach ground water, water course of sewage system

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available

13 Disposal considerations

Waste treatment methods

Product:

Waste disposal according to official regulations

Recommendation:

Product hardens after adding water after 5 to 6 hours and can then be disposed of as building rubbish.

Possible waste code 17 09 04

European waste catalogue

Possible waste code. The concrete waste code depends of the source of the waste.

10 13 14	Waste concrete and concrete sludge
10 13 11	Wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10

Uncleaned packaging:

Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Recommended cleaning agent:

Water, if necessary together with cleansing agents.

Thoroughly shake out sacks.

14 Transport Information

UN-Number ADR, ADN, IMDG, IATA	Void
UN proper shipping name ADR, ADN, IMDG, IATA	Void
Transport hazard class(es) ADR, ADN, IMDG, IATA Class:	Void
Packing group ADR, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for users:	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-Code:	Not applicable
Transport/Additional information: specifications	Not dangerous according to the above
UN „Model Regulation“:	Void

15 Regulatory information

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

Directive 2012/18/EU; Named dangerous substances – ANNEX 1:
None of the ingredients is listed

Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Indication of changes

safety data sheet acc. 1907/2006/EG; Annex II, as amended (EU 2015/830)

Relevant phrases

H315: Causes skin irritation.
H317: May cause an allergic skin reaction
H318: Causes serious eye damage.
H335: May cause respiratory irritation.

Department issuing MSDS:

Saint-Gobain Rigips GmbH, Department: Ladenburg Development Center – Gypsum Development (LDC-GD); 68526 Ladenburg

Point of contact: See point 1

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.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

Skin. Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitization-Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity-Single exposure, Hazard Category 3