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

1.1 · **Product identifier**
Trade name: Rigidur MixBinder

1.2 · **Relevant identified uses of the mixture and uses advised**

Uses of the substance/mixture: Construction chemicals

1.3 · **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

1.4 · **Emergency telephone number:**
Tel +49 (0)621 4701691 (only at daily working-times)

European Emergency Number: 112

2 Hazards identification

2.1 · **Classification of the substance or mixture**
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 and H318 is not based on the calculation of the ingredients or the pH in this case.

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

Hazard pictogram:  GHS 05 corrosion

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

2.2 · **Label elements**
Labelling according to Regulation (EC) No 1272/2008 [CLP]
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, 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 soap and 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 and wash before reuse
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	>50 %

Additional information:
The preparation is “low chromate” according to 2006/1907/EEC within the product shelf-life, so that the identification with R 43 (H317+EUH203) is not applicable, when the packaging was not opened in the meantime.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1· **Description of first aid measures**
General notes:
Immediately remove any clothing soiled by the product

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

Following skin contact:
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

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

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

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 media:
Use fire extinguishing methods suitable to surrounding conditions.

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

5.3· **Advice for firefighters:**
Protective equipment: Use methods suitable to surrounding conditions

6 Accidental release measures

6.1 **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing. Keep unprotected persons away.
Avoid formation of dust.
Ensure adequate ventilation

6.2 **Environmental precautions:**
Do not allow product to reach sewage or any water course

6.3 **Methods and material for containment and cleaning up:**
Pick up mechanically

6.4 **Reference to other sections**
See Section 13 for disposal information

7 Handling and storage

7.1·**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

7.2 **Conditions for safe storage, including any incompatibilities**
Storage:
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.
Store away from foodstuffs.
Further information on storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Protect from humidity and water.

7.3 **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

8.1 **Control parameters**
Ingredients with limit values that require monitoring at the workplace:
Additional information:
The applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

8.2 **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:
Use suitable respiratory protective device in case of insufficient ventilation.
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
Hand protection:
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 complying with the standard EN 374-1.
Recommended thickness of the material: ≥ 0.15 mm
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 pmixture 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
Breakthrough time: > 480 min
Value for the permeation: Level ≤ 6
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

9.1 · **Information on basic physical and chemical properties**

Appearence:
- Physical state: Powder
- Colour: According to product specification

Odour: Characteristic
Odour threshold: Not determined

pH-value at 20 °C:	> 12,0 (DIN 19261) In water
Change in condition	
Melting point/Melting range:	> 1200 °C (DIN ISO 3016)
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:	1100 kg/m³
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Solubility in/Miscibility with	
Water at 20 °C:	1,5 g/l
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

10.1 **Reactivity** No further relevant information available.

10.2 **Chemical stability**
Thermal decomposition/Conditions to be avoided:
No decomposition if used according to specifications

10.3 **Possibility of hazardous reactions**
Reacts with acids
Reacts with light alloys in the presence of moisture to form hydrogen

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 hazardous decomposition products known.

11 Toxicological information

11.1 **Information on toxicological effects**
Acute toxicity:
Primary irritant effect:
on the skin: Irritant to skin and mucous membranes
on the eyes: Strong irritant with the danger of severe eye injury

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
CMR effects (carcinogenity, 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 exposition: 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

12.1 **Toxicity**
Aquatic toxicity: No further relevant information available.

12.2 **Persistence and degradability**
No further relevant information available
Other information: The product is not easily biodegradable.

12.3 **Bioaccumulative potential**
No further relevant information available
Behavior in environmental systems:
12.4 **Mobility in soil**
No further relevant information available

Ecotoxical 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

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

12.6 **Other adverse effects**: No further relevant information available

13 Disposal considerations

13.1 **Waste treatment methods**

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.
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:	Not dangerous according to the above specifications
UN „Model Regulation“:	Void

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Directive 2012/18/EU
Named dangerous substances – ANNEX I: None of the ingredients is listed.

15.2 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 conernant 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-DGR: Dangerous Goods Regulations by the “International Air Transport Association” (IATA)
ICAO: International Civil Aviation Organisation
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)
PBT: Persistent; Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Skin. Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Skin Sens. 1: Sensitisation-Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity-Single exposure, Hazard Category 3