Safety Data Sheet
according to P.U.(A) 310/2013

Printing date 25.04.2026 Version number 35 Revision: 25.04.2026

1 Identification of the hazardous chemical and of the supplier

· **Product identifier**

· **Trade name** **Nafufill R3 FM**

· **Recommended use of the chemical and restrictions on use** No further relevant information available.

· **Application of the substance / the mixture** Ready-mixed mortar

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**
MC-Bauchemie Müller GmbH & Co. KG
Am Kruppwald 1-8
D-46238 Bottrop
Tel.: +49(0)2041-101-0
Fax.: +49(0)2041-101-400
E-Mail: info@mc-bauchemie.de

MC-Bauchemie AG
Siloring 8
CH-5606 Dintikon
Tel. +41 56 616 68 68
Fax +41 56 616 68 69

· **Informing department:** msds@mc-bauchemie.de

*
2 Hazard identification

· **Classification of the substance or mixture**

Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

· **Label elements**

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**

GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Portland cement (low chromate)
Calcium sulfoaluminate clinker
Calcium hydroxide
Flue dust, portland cement

· **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause allergic skin reaction.
H335 May cause respiratory irritation.

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· **Precautionary statements**

P261	Avoid breathing dust/fume/ gas/mist/vapours/ spray.
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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable

3 Composition and information of the ingredients of the hazardous chemical

· **Chemical characterisation: Mixtures**
· **Description:** Mixture consisting of the following components.

· **Dangerous components:**

CAS: 14808-60-7	Quartz sand	30-60%
CAS: 65997-15-1	Portland cement (low chromate) Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	≥20-≤30%
	Calcium sulfoaluminate clinker Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥10-<20%
CAS: 1305-62-0	Calcium hydroxide Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	≥1-<2.5%
CAS: 69012-64-2	amorphous silicon dioxide	<2.5%
CAS: 68475-76-3	Flue dust, portland cement Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	≥1-<2.5%
CAS: 7778-18-9	Calcium sulphate	<1.5%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **General information** For all first aid measures: observe self-protection and consult a doctor!
· **After inhalation** Remove people from the dusty area.
· **After skin contact** Remove heavily soiled clothing. Clean with plenty of soap and water.
· **After eye contact** Rinse for 10 minutes under running water with the eyelids open. Always consult an ophthalmologist!

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· **After swallowing** Do NOT induce vomiting. Rinse mouth with water. Medical attention required.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required
· **Environmental precautions:** No special measures required.
· **Methods and material for containment and cleaning up:** Collect mechanically.
· **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 information on disposal.

7 Handling and storage

· **Handling**
· **Precautions for safe handling** Avoid dust formation! Avoid spraying the ready-to-use cementitious product! Avoid contact with eyes and skin! Clean hands thoroughly at the end of work and before every break! Use skin care products! Change heavily soiled clothing! Change clothes at the end of work! Apply greasy skin protection ointment before starting work and after each break. Observe work restrictions!
· **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**
· **Storage**
· **Requirements to be met by storerooms and containers:** Store bags tightly closed; protect from moisture and water!
Store containers tightly closed in a well-ventilated and well-lit room.
Access only for specialised personnel.
Do not store in break rooms, recreation rooms or sanitary facilities or in stairwells, corridors, escape and rescue routes, passages, passageways and confined spaces.

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· **Information about storage in one common storage facility:** Combined storage bans apply from a total storage quantity of 200 kg.
Do not store together with substances of the following LGK: 1; 6.2; 7
Storage with substances of the following LGK is only possible under the conditions specified in TRGS 510: 4.1A; 5.1C

· **Further information about storage conditions:** Store in a dry and frost-free place.

· **Storage class** 13

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**

· **Components with critical values that require monitoring at the workplace:**	
CAS: 14808-60-7 Quartz sand	
PEL (Malaysia)	Long-term value: 0.1* mg/m³ *Pecahan ternafaskan
CAS: 65997-15-1 Portland cement (low chromate)	
PEL (Malaysia)	Long-term value: 10 mg/m³
CAS: 1305-62-0 Calcium hydroxide	
PEL (Malaysia)	Long-term value: 5 mg/m³
CAS: 69012-64-2 amorphous silicon dioxide	
PEL (Malaysia)	Long-term value: 2* mg/m³ wasap; *Pecahan ternafaskan
CAS: 7778-18-9 Calcium sulphate	
PEL (Malaysia)	Long-term value: 10 mg/m³

· **DNELs**		
CAS: 65997-15-1 Portland cement (low chromate)		
Inhalative	DNEL	1 mg/m³ (ArL)
CAS: 1305-62-0 Calcium hydroxide		
Inhalative	DNEL	1 mg/m³ (ArL)
CAS: 7778-18-9 Calcium sulphate		
Oral	DNEL	1.52 mg/kg bw/Tag (ArL)
Inhalative	DNEL	21.17 mg/m³ (ArL)

· **PNECs**	
CAS: 1305-62-0 Calcium hydroxide	
PNEC	3 mg/l (BEL) 0.32 mg/l (Mew)

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	0.49 mg/l (Freshwater)
PNEC	1080 mg/kg dwt (Bod)
CAS: 7778-18-9 Calcium sulphate	
PNEC	100 mg/l (Kla)

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Exposure controls**
· **Personal protective equipment**
· **General protective and hygienic measures** Do not store food, eat, drink, sniff or smoke in the work area!
Avoid contact with eyes and skin!
Clean hands thoroughly at the end of work and before breaks!
Use skin care products after work (moisturising cream).
Change and clean heavily soiled clothing!
Change clothes at the end of work!
Apply greasy skin protection ointment before starting work and after every break.
· **Breathing equipment:** For work with higher dust loads particle filter class P2
· **Protection of hands:** Check protective gloves prior to each use for their proper condition.
· **Material of gloves** Nitrile impregnated cotton gloves.
· **Penetration time of glove material** The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.
· **Eye protection:** Safety glasses
· **Body protection:** Protective work clothing.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**
Form: Powder
Colour: Grey
· **Smell:** Characteristic

· **pH-value at 20 °C:** 11.4

· **Change in condition**
Melting point/freezing point Not determined
Initial boiling point and boiling range Not determined
Not applicable

· **Flash point:** Not applicable

· **Ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive.

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· **Steam pressure:**	Not applicable Not applicable
· **Density**	Not determined
· **Solubility in / Miscibility with Water:**	Unsoluble
· **Viscosity:**	
dynamic:	Not applicable
kinematic:	Not applicable
· **Other information**	No further relevant information available.

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**	No dangerous reactions known
· **Conditions to avoid**	No further relevant information available.
· **Incompatible materials:**	No further relevant information available.
· **Hazardous decomposition products:**	No dangerous decomposition products known

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity**

· **LD/LC50 values that are relevant for classification:**		
CAS: 65997-15-1 Portland cement (low chromate)		
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	5 mg/l (rat)
CAS: 1305-62-0 Calcium hydroxide		
Oral	LD50	7340 mg/kg (rat)
CAS: 7778-18-9 Calcium sulphate		
Oral	LD50	>1581 mg/kg (rat)
Dermal	NOAEL	790 mg/kg (rat)
Inhalative	LC50/4 h	>2.61 mg/l (rat)

· **Primary irritant effect:**	
· **Skin corrosion or irritation**	Irritant for skin and mucous membranes.
· **Serious eye damage or eye irritation**	Strong irritant with the danger of severe eye injury.

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· **Respiratory / skin sensitization** Sensitization possible by skin contact.
· **Additional toxicological information:** The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
CAS: 69012-64-2 amorphous silicon dioxide	
EC50/24h	>1002 mg/l (Daphnia magna)
NOEC	319 mg/l (Daphnia magna)
CAS: 7778-18-9 Calcium sulphate	
EC50/72h	>79 mg/l (Selenastrum capricornutum)
LC50/96h	>79 mg/l (fish)
EC50	>790 mg/l (BEL)
EC50/48h	>79 mg/l (Daphnia magna)

· **Persistence and degradability** No further relevant information available.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **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 bodies or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Other adverse effects** No further relevant information available.

13 Disposal information

· **Waste treatment methods**
· **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

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14 Transportation 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 user**	Not applicable
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable
· **UN "Model Regulation":**	Void

15 Regulatory information

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

· **EHS reference list**

None of the ingredients is listed.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing data specification sheet:** Environment protection department.
· **Contact:**
· **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 relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion or irritation – Category 2
Eye Dam. 1: Serious eye damage or eye irritation – Category 1
Skin Sens. 1: Skin sensitization – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **** Data compared to the previous version altered.***