

Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 06.11.2022

Version number 23

Revision: 06.11.2022

1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name** Nafufill LM
- **Recommended use of the chemical and restrictions on use** No further relevant information available.
- **Application of the substance / the mixture** dry mortar
- **Details of the supplier of the safety data sheet**
- **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.
 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:** Cement, portland, chemicals
Cr(VI)<2ppm
calcium sulphate, natural
calcium dihydroxide
Flue dust, portland cement
- **Hazard statements** Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.
- **Precautionary statements** Avoid breathing dust/fume/ gas/mist/vapours/spray.
Wear protective gloves / eye protection / face protection.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Specific treatment (see on this label).
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.

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· Dangerous components:		
14808-60-7	Quartz (SiO ₂)	25-50%
65997-15-1	Cement, portland, chemicals Cr(VI)<2ppm Eye Dam. 1, H318; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	≥20-<25%
69012-64-2	amorphous silica (fume)	<3%
7778-18-9	calcium sulphate, natural Acute Tox. 4, H302; Acute Tox. 4, H332	<2.5%
1305-62-0	calcium dihydroxide Eye Dam. 1, H318; Skin Irrit. 2, H315	≥1-<2.5%
68475-76-3	Flue dust, portland cement Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	≥1-<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**
- **After inhalation** Supply fresh air.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.
Seek medical treatment.
- **After swallowing** Rinse out mouth and then drink plenty of water.
Seek medical treatment.
- **Information for doctor**
- **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 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.

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7 Handling and storage

- **Handling**
- **Precautions for safe handling** Prevent formation of dust.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· Components with critical values that require monitoring at the workplace:

14808-60-7 Quartz (SiO₂)

PEL (Malaysia)	Long-term value: 0.1* mg/m ³ *Pecahan ternafaskan
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65997-15-1 Cement, portland, chemicals Cr(VI)<2ppm

PEL (Malaysia)	Long-term value: 10 mg/m ³
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69012-64-2 amorphous silica (fume)

PEL (Malaysia)	Long-term value: 2* mg/m ³ wasap; *Pecahan ternafaskan
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7778-18-9 calcium sulphate, natural

PEL (Malaysia)	Long-term value: 10 mg/m ³
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1305-62-0 calcium dihydroxide

PEL (Malaysia)	Long-term value: 5 mg/m ³
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· DNELs

65997-15-1 Cement, portland, chemicals Cr(VI)<2ppm

Inhalative	DNEL	1 mg/m ³ (ArL)
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7778-18-9 calcium sulphate, natural

Oral	DNEL	1.52 mg/kg bw/Tag (ArL)
Inhalative	DNEL	21.17 mg/m ³ (ArL)

1305-62-0 calcium dihydroxide

Inhalative	DNEL	1 mg/m ³ (ArL)
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· PNECs

7778-18-9 calcium sulphate, natural

PNEC	100 mg/l (Kla)
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1305-62-0 calcium dihydroxide

PNEC	3 mg/l (BEL)
	0.32 mg/l (Mew)

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	0.49 mg/l (Suw)
PNEC	1080 mg/kg dwt (Bod)

- **Additional information:** *The lists that were valid during the compilation were used as basis.*
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and food.*
 - Instantly remove any soiled and impregnated garments.*
 - Wash hands during breaks and at the end of the work.*
 - Avoid contact with the eyes and skin.*
- **Breathing equipment:**
 - Wear respiratory protection in case of insufficient ventilation.*
 - The selection of respirators (EN 14387) must be based on the known or anticipated exposure concentrations, the hazards of the product and the occupational exposure limits (section 8.1) of the respirator in question.*
 - Particle filter PP1: Inert substance; P2, P3: Hazardous substances*
 - Provide adequate ventilation. This can be achieved by local exhaust ventilation or general exhaust ventilation.*
 - (EN 689 - Methods for determining inhalation exposure)*
 - This applies especially at the mixing or stirring place.*
 - If this is not sufficient to keep the concentration below the occupational exposure limit, provide respiratory protection.*
- **Protection of hands:**
 - Protective gloves.*
 - 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.*
- **Material of gloves**
 - Strong 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 can not be calculated in advance and has therefore to be checked prior to the application.*
- **Penetration time of glove material**
 - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- **Eye protection:**
 - Safety glasses*
 - Tightly sealed 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:** 11
- **Change in condition**

Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not applicable
	Not determined
- **Flash point:** Not applicable

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· Auto-ignition temperature	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Density at 20 °C	2.44 g/cm ³
· Solubility in / Miscibility with Water:	Partly miscible
· 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:**

65997-15-1 Cement, portland, chemicals
Cr(VI)<2ppm

Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	5 mg/l (rat)

7778-18-9 calcium sulphate, natural

Oral	LD50	>1581 mg/kg (rat)
Dermal	NOAEL	790 mg/kg (rat)
Inhalative	LC50/4 h	>2.61 mg/l (rat)

1305-62-0 calcium dihydroxide

Oral	LD50	7340 mg/kg (rat)
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· 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.
· Respiratory / skin sensitization	No sensitizing effect known.
· 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

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12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

69012-64-2 amorphous silica (fume)

EC50/24h	>1002 mg/l (Daphnia magna)
NOEC	319 mg/l (Daphnia magna)

7778-18-9 calcium sulphate, natural

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.

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.

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· UN "Model Regulation":	Void
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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)

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

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Irrit. 2: Skin corrosion or irritation – Category 2

Eye Dam. 1: Serious eye damage or eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

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