



BE SURE. BUILD SURE.

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

Printing date 16.02.2022

Version number 12



Revision: 16.02.2022

1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name** Nafufill KM 250 HS
- **Recommended use of the chemical and restrictions on use** No further relevant information available.
- **Application of the substance / the mixture** Concrete surfacer
- **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
Hagackerstr. 10
CH-8953 Dietikon
Tel.: +44-7400510
Fax : +44-7400533
- **Informing department:** msds@mc-bauchemie.de
- **Emergency telephone number:** Tel.: +49 / (0)700 24112112 (MCR)
Tel.: +48612864565

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
Burnt Oil Shale
Flue dust, portland cement
- **Hazard statements** Causes skin irritation.

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- **Precautionary statements**
 - Causes serious eye damage.
 - May cause respiratory irritation.
 - 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.

· **Dangerous components:**

14808-60-7	Quartz (SiO ₂)	50-70%
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	25-50%
93685-99-5	Burnt Oil Shale STOT RE 2, H373; Eye Dam. 1, H318; STOT SE 3, H335	≥3-<5%
69012-64-2	amorphous silica (fume)	<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.
 - In case of unconsciousness bring patient into stable side position for transport.
- **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.

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- **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** CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **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** 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:** None.

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· **Specific end use(s)**

No further relevant information available.

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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/m³
*Pecahan ternafaskan

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

PEL (Malaysia) Long-term value: 10 mg/m³

69012-64-2 amorphous silica (fume)

PEL (Malaysia) Long-term value: 2* mg/m³
wasap; *Pecahan ternafaskan

· **DNELs**

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

Inhalative DNEL 1 mg/m³ (ArL)

93685-99-5 Burnt Oil Shale

Inhalative DNEL 0.233 mg/m³ (ArL)

· **PNECs**

93685-99-5 Burnt Oil Shale

PNEC 100 mg/l (BEL)
0.002 mg/l (Mew)
0.02 mg/l (Suw)

· **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 skin.
Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· **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.

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- **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:** *Whitish*
- **Smell:** *Odourless*

· **pH-value:** *Not applicable.*

· Change in condition

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

· **Flash point:** *Not applicable*

· **Auto-ignition temperature** *Product is not selfigniting.*

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

· **Density at 20 °C** *2.74 g/cm³*

· **Solubility in / Miscibility with Water:** *Unsoluble*

· **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*

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- **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)

93685-99-5 Burnt Oil Shale

Oral	LD50	>2000 mg/kg (rat)
Inhalative	LOAEL	0.000699 mg/l (ArL)

- **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

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

93685-99-5 Burnt Oil Shale

EC50/72h	82.7 mg/l (Selenastrum capricornutum)
LC50/96h	>100 mg/l (fish)
EC50/48h	>100 mg/l (Daphnia magna)
NOEC	>100 mg/l (fish)

69012-64-2 amorphous silica (fume)

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

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.

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- **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:** *Non contaminated packagings can be used for recycling.*

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 |

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15 Regulatory information

- **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.*
- **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
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

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