



BE SURE. BUILD SURE.

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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2025

Version number 35 (replaces version 34)

Revision: 12.04.2025

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

· **1.1 Product identifier**

· **Trade name** Nafufill EC 6

· **Article number:** 799

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· **Application of the substance / the mixture**

Concrete surfacer

· **1.3 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

· **1.4 Emergency telephone number:**

Tel.: +49 / (0)700 24112112 (MCR)
Tel.: +1 872 5888271 (MCR)

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H335 May cause respiratory irritation.

· **2.2 Label elements**

· **Labelling according to**

Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS05 GHS07

· **Signal word**

Danger

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- **Hazard-determining components of labelling:** Portland cement (low chromate)
Flue dust, portland cement
- **Hazard statements** H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
- **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).
P362+P364 Take off contaminated clothing and wash it before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

· **Determination of endocrine-disrupting properties**

CAS: 554-13-2	Lithium carbonate	List III
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SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture consisting of the following components.

· **Dangerous components:**

CAS: 14808-60-7 EINECS: 238-878-4	Quartz sand substance with a Community workplace exposure limit	30-60%
CAS: 65997-15-1 EINECS: 266-043-4	Portland cement (low chromate) Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	≥20-≤30%
CAS: 68475-76-3 EINECS: 270-659-9	Flue dust, portland cement Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	≥1-<2.5%
CAS: 7778-18-9 EINECS: 231-900-3 Reg.nr.: 1-2119444918-26	Calcium sulphate substance with a Community workplace exposure limit	<1.5%
CAS: 554-13-2 EINECS: 209-062-5 Reg.nr.: 01-2119516034-53-0000	Lithium carbonate Acute Tox. 4, H302; Eye Irrit. 2, H319	<0.5%

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· **Additional information**

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

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SECTION 4: First aid measures

· **4.1 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!
- **After swallowing** Do NOT induce vomiting. Rinse mouth with water. Medical attention required.

SECTION 5: Firefighting measures

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

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:** Collect mechanically.
- **6.4 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.

SECTION 7: Handling and storage

- **7.1 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!

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Apply greasy skin protection ointment before starting work and after each break. Observe work restrictions!

· 7.2 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.

· 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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

CAS: 14808-60-7 Quartz sand

OEL (Ireland)	Long-term value: 0.1 mg/m ³
BOELV (European Union)	Long-term value: 0.1* mg/m ³ *respirable fraction

CAS: 65997-15-1 Portland cement (low chromate)

OEL (Ireland)	Long-term value: 1 mg/m ³ respirable fraction
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CAS: 7778-18-9 Calcium sulphate

OEL (Ireland)	Long-term value: 10 mg/m ³
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· DNELs

CAS: 65997-15-1 Portland cement (low chromate)

Inhalative	DNEL	1 mg/m ³ (ArL)
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CAS: 7778-18-9 Calcium sulphate

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

· PNECs

CAS: 7778-18-9 Calcium sulphate

PNEC	100 mg/l (Kla)
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- **Additional information:** *The lists that were valid during the compilation were used as basis.*
- **8.2 Exposure controls**
- **Appropriate engineering controls** *No further data; see section 7.*
- **Individual protection measures, such as 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*
- **Hand protection** *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/face protection** *Safety glasses*
- **Body protection:** *Protective work clothing.*
- **Skin protection** *Use greasy skin protection ointment for all uncovered parts of the body!*

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Colour:** *Grey*
- **Smell:** *neutral*
- **Melting point/freezing point:** *Not determined*
- **Boiling point or initial boiling point and boiling range** *2230 °C (CAS: 14808-60-7 Quartz sand)*
- **Flash point:** *Not applicable*
- **pH** *Not applicable.*
- **Viscosity:**
- **Kinematic viscosity** *Not applicable.*
- **dynamic:** *Not applicable.*
- **Solubility**
- **Water:** *Unsoluble*
- **Steam pressure at 1732 °C:** *13.5 hPa (CAS: 14808-60-7 Quartz sand)*
- **Density and/or relative density**
- **Density at 20 °C** *2.71 g/cm³*
- **Particle characteristics** *See section 3.*

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· 9.2 Other information

· Appearance:

· Form:

Powder

· Important information on protection of health and environment, and on safety.

· Self-inflammability:

Product is not selfigniting.

· Explosive properties:

Product is not explosive.

· Information with regard to physical hazard classes

· Explosives

Void

· Flammable gases

Void

· Aerosols

Void

· Oxidising gases

Void

· Gases under pressure

Void

· Flammable liquids

Void

· Flammable solids

Void

· Self-reactive substances and mixtures

Void

· Pyrophoric liquids

Void

· Pyrophoric solids

Void

· Self-heating substances and mixtures

Void

· Substances and mixtures, which emit flammable gases in contact with water

Void

· Oxidising liquids

Void

· Oxidising solids

Void

· Organic peroxides

Void

· Corrosive to metals

Void

· Desensitised explosives

Void

SECTION 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

No dangerous reactions known

· 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 dangerous decomposition products known

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SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **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: 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)

CAS: 554-13-2 Lithium carbonate

Oral	LD50	525 mg/kg (rat)
	NOAEL	19.23 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rat)
	NOAEL	64.3 mg/kg (rat)
Inhalative	LC50/4 h	>2 mg/l (rat)

- **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.
- **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 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.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

CAS: 554-13-2	Lithium carbonate	List III
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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

CAS: 7778-18-9 Calcium sulphate

EC50/72h	>79 mg/l (Selenastrum capricornutum)
LC50/96h	>79 mg/l (fish)
EC50	>790 mg/l (BEL)

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EC50/48h	>79 mg/l (Daphnia magna)
CAS: 554-13-2 Lithium carbonate	
LC50/96h	30.3 mg/l (Oncorhynchus mykiss)
EC50	278 mg/l (BEL)
EC50/48h	33 mg/l (Daphnia magna)
NOEC	15.25 mg/l (Danio rerio)
	50 mg/l (Desmodesmus subspicatus)
	19.1 mg/l (Oncorhynchus mykiss)
	20 mg/l (Daphnia magna)
ErC50/72h	>400 mg/l (Desmodesmus subspicatus)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

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

· **European waste catalogue**

17 00 00	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01 00	concrete, bricks, tiles and ceramics
17 01 01	concrete
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

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



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SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture	No further relevant information available.
· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II	None of the ingredients is listed.
· REGULATION (EU) 2019/1148	
· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))	None of the ingredients is listed.
· Annex II - REPORTABLE EXPLOSIVES PRECURSORS	None of the ingredients is listed.
· Regulation (EC) No 273/2004 on drug precursors	None of the ingredients is listed.
· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	None of the ingredients is listed.

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· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 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.

· **Relevant phrases**

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

· **Department issuing data specification sheet:**

Environment protection department.

· **Date of previous version:**

15.10.2021

· **Version number of previous version:**

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· **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
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)
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 – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

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