



BE SURE. BUILD SURE.

Page 1/10

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

Printing date 15.02.2025

Version number 45 (replaces version 44)

Revision: 15.02.2025

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

· **1.1 Product identifier**

· **Trade name** Nafuflex High Performance - Komponente B

· **Article number:** 2165

· **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**

Bitumen high build coating

· **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.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· **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

(Contd. on page 2)



BE SURE. BUILD SURE.

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

Printing date 15.02.2025

Version number 45 (replaces version 44)

Revision: 15.02.2025

Trade name Nafuflex High Performance - Komponente B

(Contd. of page 1)

- **Hazard-determining components of labelling:** Calcium sulfoaluminat clinker
Portland cement
- **Hazard statements** H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
- **Precautionary statements** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
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.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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 (SiO ₂) substance with a Community workplace exposure limit	60-80%
EC number: 934-133-9	Calcium sulfoaluminat clinker Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥10-<20%
CAS: 7778-18-9 EINECS: 231-900-3 Reg.nr.: 1-2119444918-26	calcium sulphate, natural substance with a Community workplace exposure limit	<10%
CAS: 65997-15-1 EINECS: 266-043-4	Portland cement Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	≥1-<2.5%

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

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** Take the person out into the fresh air.

(Contd. on page 3)



BE SURE. BUILD SURE.

Page 3/10

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

Printing date 15.02.2025

Version number 45 (replaces version 44)

Revision: 15.02.2025

Trade name Nafuflex High Performance - Komponente B

(Contd. of page 2)

- **After skin contact** Remove heavily soiled clothing.
Clean with plenty of water.
Do not use thinner or similar.
- **After eye contact** Rinse for 10 minutes under running water with the eyelids open or use eye rinsing solution. Always consult an ophthalmologist!
- **After swallowing** Do not induce vomiting, do not give anything to drink.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **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** Wear protective clothing.
- **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** No special measures required.
No special precautions necessary if used correctly.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store frost-free.
Protect powder products from moisture and water.
Only store in the original container or in containers recommended by the manufacturer.
After decanting, label containers as original containers.
Store containers tightly closed in a well-ventilated and well-lit room.
Access only for specialised personnel.

(Contd. on page 4)



BE SURE. BUILD SURE.

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

Printing date 15.02.2025

Version number 45 (replaces version 44)

Revision: 15.02.2025

Trade name Nafuflex High Performance - Komponente B

(Contd. of page 3)

Do not store in break rooms, recreation rooms or sanitary facilities as well as in stairwells, corridors, escape and rescue routes, passages, passageways and confined spaces.

- **Further information about storage conditions:** None.
- **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 (SiO₂)

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

CAS: 7778-18-9 calcium sulphate, natural

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

CAS: 65997-15-1 Portland cement

OEL (Ireland)	Long-term value: 1 mg/m ³ respirable fraction
---------------	---

· DNELs

CAS: 7778-18-9 calcium sulphate, natural

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

CAS: 65997-15-1 Portland cement

Inhalative	DNEL	1 mg/m ³ (ArL)
------------	------	---------------------------

· PNECs

CAS: 7778-18-9 calcium sulphate, natural

PNEC	100 mg/l (Kla)
------	----------------

· **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, skin and clothing!
 Apply skin protection ointment as a preventive measure to facilitate skin cleansing.
 Remove product residues from the skin!
 Only remove dried bitumen from the skin with a suitable cleanser (special skin cleansers, margarine or vegetable oil are also suitable).
 Never use solvents or diesel to clean the skin.

(Contd. on page 5)



BE SURE. BUILD SURE.

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

Printing date 15.02.2025

Version number 45 (replaces version 44)

Revision: 15.02.2025

Trade name Nafuflex High Performance - Komponente B

(Contd. of page 4)

- **Breathing equipment:** Clean hands thoroughly after work and before breaks!
Use skin care products after work (moisturising cream).
Wear closed work clothing during work.
Change clothes at the end of work!
Particle filters P2 are recommended when using the spraying method (with strong aerosol formation).
- **Hand protection** Gloves made of: Nitrile rubber.
(Category 3 chemical protective gloves, recognisable by the CE mark with four-digit test number).
Cotton undergloves are recommended when wearing protective gloves.
Can be used as splash protection:
Nitrile-soaked cotton gloves.
Suitable glove brands have been identified for work with bitumen emulsions: Best: Nitri-Solve 730
KCL: Camatril Velours 730
- **Material of 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.
- **Penetration time of glove material** The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.
- **Eye/face protection** If there is a risk of splashing: frame goggles.
- **Body protection:** For spraying processes: Disposable protective suit.
- **Skin protection** Use fat-free or low-fat (oil-in-water emulsion) 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:** Odourless
- **Melting point/freezing point:** Not determined
- **Boiling point or initial boiling point and boiling range** 2230 °C (CAS: 14808-60-7 Quartz (SiO₂))
- **Flash point:** Not applicable
- **pH** Not applicable.
- **Viscosity:**
- **Kinematic viscosity** Not applicable.
- **dynamic:** Not applicable.
- **Solubility**
- **Water:** Partly soluble
- **Steam pressure at 1732 °C:** 13.5 hPa (CAS: 14808-60-7 Quartz (SiO₂))
- **Density and/or relative density**
- **Density at 20 °C** 1.55 g/cm³
- **Particle characteristics** See section 3.

(Contd. on page 6)



BE SURE. BUILD SURE.

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

Printing date 15.02.2025

Version number 45 (replaces version 44)

Revision: 15.02.2025

Trade name Nafuflex High Performance - Komponente B

(Contd. of page 5)

· **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

(Contd. on page 7)



BE SURE. BUILD SURE.

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

Printing date 15.02.2025

Version number 45 (replaces version 44)

Revision: 15.02.2025

Trade name Nafuflex High Performance - Komponente B

(Contd. of page 6)

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: 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)

CAS: 65997-15-1 Portland cement

Dermal LD50 2000 mg/kg (rabbit)

Inhalative LC50/4 h 5 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **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** Based on available data, the classification criteria are not met.
- **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**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

CAS: 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)

- **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.

(Contd. on page 8)



BE SURE. BUILD SURE.

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

Printing date 15.02.2025

Version number 45 (replaces version 44)

Revision: 15.02.2025

Trade name Nafuflex High Performance - Komponente B

(Contd. of page 7)

- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **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 09 00	other construction and demolition wastes
17 09 03*	other construction and demolition wastes (including mixed wastes) containing hazardous substances
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 02	plastic packaging
HP4	Irritant - skin irritation and eye damage
HP13	Sensitising

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

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

(Contd. on page 9)



BE SURE. BUILD SURE.

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

Printing date 15.02.2025

Version number 45 (replaces version 44)

Revision: 15.02.2025

Trade name Nafuflex High Performance - Komponente B

(Contd. of page 8)

· 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.

· **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** H315 Causes skin irritation.

(Contd. on page 10)



BE SURE. BUILD SURE.

Page 10/10

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

Printing date 15.02.2025

Version number 45 (replaces version 44)

Revision: 15.02.2025

Trade name Nafuflex High Performance - Komponente B

(Contd. of page 9)

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

· **Department issuing data specification sheet:**

Environment protection department.

· **Date of previous version:**

17.10.2021

· **Version number of previous version:**

44

· **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

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

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

Skin Sens. 1: Skin sensitisation – Category 1

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

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

IE