



BE SURE. BUILD SURE.

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## Safety data sheet according to UK REACH

Printing date 10.12.2024

Version number 31 (replaces version 30)

Revision: 07.12.2024

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

· **1.1 Product identifier**

· **Trade name** Nafuflex GIP

· **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**

Construction chemicals

· **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 Irrit. 2 H319 Causes serious eye irritation.

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 GB CLP regulation.

· **Hazard pictograms**



GHS07

· **Signal word**

Warning

· **Hazard-determining components of labelling:**

Silicic acid, sodium salt, molar ratio SiO<sub>2</sub>/Na<sub>2</sub>O >3.2

· **Hazard statements**

H315 Causes skin irritation.

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- **Precautionary statements**
  - H319 Causes serious eye irritation.
  - H335 May cause respiratory irritation.
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P280 Wear protective gloves / eye protection / face protection.
  - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P312 Call a POISON CENTER/doctor if you feel unwell.
  - 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.

### SECTION 3: Composition/information on ingredients

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

· **Dangerous components:**

CAS: 1344-09-8	Silicic acid, sodium salt, molar ratio SiO <sub>2</sub> /Na <sub>2</sub> O >3.2	≥20-≤30%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

### 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.
- **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.  
Drink plenty of water in small sips.

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Void
- **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:** Prevent material from reaching sewage system, holes and cellars. Dilute with much water.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.  
Protect from heat.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Protect containers from frost!  
Only store in the original container or in containers recommended by the manufacturer.  
After decanting, label containers as original containers.  
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:** Protect from heat and direct sunlight.

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· Storage class

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#### SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- Components with critical values that require

**monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

CAS: 1344-09-8 Silicic acid, sodium salt, molar ratio SiO<sub>2</sub>/Na<sub>2</sub>O >3.2

Oral	DNEL	0.8 mg/kg bw/Tag (ArL)
Dermal	DNEL	1.59 mg/kg bw/day (ArL)
Inhalative	DNEL	5.61 mg/m <sup>3</sup> (ArL)

· PNECs

CAS: 1344-09-8 Silicic acid, sodium salt, molar ratio SiO<sub>2</sub>/Na<sub>2</sub>O >3.2

PNEC	348 mg/l (Kla)
	1 mg/l (Mew)
	7.5 mg/l (Freshwater)

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

- 8.2 Exposure controls
- Appropriate engineering controls
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures

No further data; see section 7.

Do not store any foodstuffs or eat, drink, snuff or smoke in the work area!  
 Avoid contact with eyes and skin!  
 Preventively apply skin protection ointment to facilitate skin cleansing.  
 Remove product residues from the skin!  
 Clean hands thoroughly at the end of work and before cleaning!  
 Remove product residues from the skin with a suitable cleaning agent - never use solvents or thinners to clean the skin!  
 Use skin care products after work (moisturising cream).

· Breathing equipment:

For spraying processes:  
Particle filter P2 (white)

· Hand protection

Gloves made of: Natural latex, polychloroprene, nitrile rubber.  
(Category 3 chemical protective gloves, recognisable by the CE mark with four-digit test number).  
When wearing protective gloves, cotton undergloves are recommended.

· Material of gloves

Natural latex, polychloroprene, nitrile rubber.

· Penetration time of glove material

The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.

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- **Eye/face protection**                      *Frame 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:**    *Blue*
- **Smell:**    *Odourless*
- **Melting point/freezing point:**                      *Not determined*
- **Boiling point or initial boiling point and boiling range**                      *100 °C (CAS: 7732-18-5 water, distilled, conductivity or of similar purity)*
- **Flash point:**    *Not applicable*
- **pH**    *Alkaline*  
*Not determined.*
- **Viscosity:**
- **Kinematic viscosity**    *Not determined.*
- **dynamic at 20 °C:**    *100 mPas*
- **Solubility**
- **Water:**    *Fully miscible*
- **Steam pressure at 20 °C:**    *23 hPa (CAS: 7732-18-5 water, distilled, conductivity or of similar purity)*
- **Density and/or relative density**
- **Density at 20 °C**    *1.19 g/cm<sup>3</sup>*

##### · 9.2 Other information

- **Appearance:**
- **Form:**    *Fluid*
- **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*

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- **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

#### 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: 1344-09-8 Silicic acid, sodium salt, molar ratio SiO<sub>2</sub>/Na<sub>2</sub>O >3.2

Oral	LD50	3400 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **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**

None of the ingredients is listed.

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### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

**CAS: 1344-09-8 Silicic acid, sodium salt, molar ratio SiO<sub>2</sub>/Na<sub>2</sub>O >3.2**

EC50/72h >345.4 mg/l (Desmodesmus subspicatus)

LC50/96h 1108 mg/l (Danio rerio)  
260 mg/l (Oncorhynchus mykiss)  
>100 mg/l (fish)

EC50 >100 mg/l (Bak)  
>100 mg/l (algae)  
>100 mg/l (Daphnien)

>100 mg/l (Daphnia magna)

EC50/48h 1700 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.

· 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.

##### · Uncleaned packagings:

· Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

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· **Recommended cleaning agent:**

Water, if necessary with cleaning agent.

#### 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.

· **Transport/Additional information:**

Not dangerous according to the above specifications.

· **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.

· **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

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**

*H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.*

**· Department issuing data specification sheet:**

*Environment protection department.*

**· 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 (UK REACH)  
PNEC: Predicted No-Effect Concentration (UK 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 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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