



BE SURE. BUILD SURE.

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## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.12.2023


Version number 31

Revision: 15.12.2023

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

- **Product identifier**
- **Trade name** Nafuflex Profi Tech 1
- **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*
- **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*

### 2 Hazards identification

- **Classification of the substance or mixture**  
*Skin Sens. 1 H317 May cause an allergic skin reaction.  
Aquatic Acute 2 H401 Toxic to aquatic life.  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.*
- **Label elements**
- **GHS label elements** *The product is classified and labelled according to the Globally Harmonised System (GHS).*
- **Hazard pictograms**  
  
GHS07
- **Signal word** *Warning*
- **Hazard-determining components of labelling:** *2-methyl-2H-isothiazol-3-one  
2-octyl-2H-isothiazol-3-one*
- **Hazard statements** *May cause an allergic skin reaction.  
Toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.*
- **Precautionary statements** *Avoid breathing dust/fume/gas/mist/vapours/spray.  
Avoid release to the environment.  
Wear protective gloves.*

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If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see on this label).

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**3 Composition/information on ingredients**

· **Chemical characterisation: Mixtures**

· **Description:** Mixture consisting of the following components.

· **Dangerous components:**

CAS: 8052-42-4	Asphalt Acute Tox. 5, H313	30-60%
CAS: 8050-09-7	Rosin Skin Sens. 1, H317; Acute Tox. 5, H303	≥0.1-<0.5%
CAS: 1314-13-2	Zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.25-<0.5%
CAS: 1219010-04-4	N-C16-18 (even numbered) and C18 (unsaturated) alkyl propane-1,3-diamine STOT RE 1, H372; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	<0.025%
CAS: 2682-20-4	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	≥0.0015-<0.025%
CAS: 13463-41-7	pyrithione zinc Acute Tox. 3, H301; Acute Tox. 2, H330; Repr. 1B, H360; STOT RE 1, H372; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.0025-<0.025%
CAS: 26530-20-1	2-octyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1A, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	≥0.0015-<0.0025%

**4 First aid measures**

· **Description of first aid measures**

· **General information** No special measures required.

· **After inhalation** Supply fresh air.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.

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- **After eye contact** *Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.*
  - **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 Firefighting 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:** *Dilute with much water.*
- **Methods and material for containment and cleaning up:** *Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*
- **Reference to other sections** *No dangerous materials are released.*

### 7 Handling and storage

- **Handling**
- **Precautions for safe handling** *No special measures required.*
- **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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- **Storage class** 12
- **Specific end use(s)** No further relevant information available.

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**8 Exposure controls/personal protection**

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

· **Control parameters**

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

**CAS: 8052-42-4 Asphalt**

REL (USA)	Ceiling limit: 5* mg/m <sup>3</sup> *15-min; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.5* mg/m <sup>3</sup> *inh. ;as benzene-soluble aerosol;A4, BEI-P
WEL (Great Britain)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup>

**CAS: 8050-09-7 Rosin**

TLV (USA)	Long-term value: 0.001* mg/m <sup>3</sup> *inhalable fraction, DSEN, RSEN
WEL (Great Britain)	Short-term value: 0.15 mg/m <sup>3</sup> Long-term value: 0.05 mg/m <sup>3</sup> Sen

· **Ingredients with biological limit values:**

**CAS: 8052-42-4 Asphalt**

BEI (USA)	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)
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- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.

- **Breathing equipment:**

Only during spraying without adequate removal by suction.  
Short term filter device:  
Filter A/P2.

- **Protection of hands:**

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.

- **Material of gloves**

Nitrile rubber, NBR  
Butyl rubber, BR

- **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 protection:

Safety glasses

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#### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Viscous

Colour: Dark brown

· Smell: neutral

· pH-value at 20 °C: 9

· Change in condition

Melting point/freezing point: Not determined

Initial boiling point and boiling range: 100 °C

· Flash point: Not applicable

· Self-inflammability: Product is not selfigniting.

· Explosive properties: Product is not explosive.

· Steam pressure at 20 °C: 23 hPa

· Density at 20 °C 1.03 g/cm<sup>3</sup>

· Solubility in / Miscibility with

Water: Fully miscible

· Viscosity:

dynamic at 20 °C: 20000 mPas

kinematic: Not determined.

· 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.

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· **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:**

**CAS: 8052-42-4 Asphalt**

Dermal	LD50	>2000 mg/kg (rabbit)
	NOAEL	2000 mg/kg (rabbit)
Inhalative	NOAEL	103.9 mg/l (rat)

**CAS: 8050-09-7 Rosin**

Oral	LD50	>2500 mg/kg (Meerschweinchen)
		>3000 mg/kg (mouse)
		>2000 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

**CAS: 1219010-04-4 N-C16-18 (even numbered) and C18 (unsaturated) alkyl propane-1,3-diamine**

Oral	LD50	500 mg/kg (rat)
	NOAEL	0.4 mg/kg (rat)

**CAS: 2682-20-4 2-methyl-2H-isothiazol-3-one**

Oral	LD50	50-300 mg/kg (rat)
Inhalative	LC50/4 h	0.11 mg/l (rat)

**CAS: 13463-41-7 pyrithione zinc**

Oral	LD50	221 mg/kg (ATE)
Inhalative	LC50/4 h	0.14 mg/l (ATE)

**CAS: 26530-20-1 2-octyl-2H-isothiazol-3-one**

Oral	LD50	125 mg/kg (ATE)
		500 mg/kg (rat)
Dermal	LD50	311 mg/kg (ATE)
		>2000 mg/kg (rat)
Inhalative	LC50/4 h	0.27 mg/l (ATE)
		0.6 mg/l (rat)

· **Primary irritant effect:**

· **Serious eye damage/irritation** No irritant effect.

· **Respiratory or skin sensitisation**

No sensitizing effect known.

· **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity:**

**CAS: 8052-42-4 Asphalt**

EC50/72h	>1000 mg/l (algae)
LC50/96h	0.002 mg/l (Coregonus clupeaformis) >1000 mg/l (fish)
EC50	0.062 mg/l (Gammarus pseudolimnaeus)
LC50/48h	>1000 mg/l (Daphnien)
NOEC	>1000 mg/l (Daphnien)

**CAS: 8050-09-7 Rosin**

EC50/48h	>1000 mg/l (Daphnia magna)
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**CAS: 1219010-04-4 N-C16-18 (even numbered) and C18 (unsaturated) alkyl propane-1,3-diamine**

LC50/24h	0.148 mg/l (fish)
EC50	0.29 mg/l (Daphnia magna)
NOEC	>0.01 mg/l (algae)

**CAS: 2682-20-4 2-methyl-2H-isothiazol-3-one**

EC50/72h	0.157 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	6 mg/l (Oncorhynchus mykiss)
EC50/48h	1.68 mg/l (Daphnies)

**CAS: 13463-41-7 pyrithione zinc**

LC50/72h	0.067 mg/l (Selenastrum capricornutum)
LC50/96h	0.15 mg/l (Oncorhynchus mykiss)
EC50/48h	0.05 mg/l (Daphnies)

**CAS: 26530-20-1 2-octyl-2H-isothiazol-3-one**

EC50/48h	0.42 mg/l (Daphnien)
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· **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:** Danger to drinking water if even extremely small quantities leak into soil.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

- **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.*
- **Recommended cleaning agent:** *Water, if necessary with cleaning agent.*

### 14 Transport information

- |   |  |
|---|--|
| · <b>UN-Number</b>  |  |
| · <b>ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>UN proper shipping name</b>  |  |
| · <b>ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>Transport hazard class(es)</b>   |  |
| · <b>ADR, ADN, IMDG, IATA</b>   |  |
| · <b>Class</b>  | Void   |
| · <b>Packing group</b>  |  |
| · <b>ADR, IMDG, IATA</b>  | Void   |
| · <b>Environmental hazards:</b>   |  |
| · <b>Marine pollutant:</b>  | No   |
| · <b>Special precautions for user</b>                                       | Not applicable.                                      |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                  | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>   | Void   |

### 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.*

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### 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)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute Tox. 3: Acute toxicity – Category 3*

*Acute Tox. 4: Acute toxicity – Category 4*

*Acute Tox. 5: Acute toxicity – Category 5*

*Acute Tox. 2: Acute toxicity – Category 2*

*Skin Corr. 1A: Skin corrosion/irritation – Category 1A*

*Skin Corr. 1B: Skin corrosion/irritation – Category 1B*

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

*Skin Sens. 1: Skin sensitisation – Category 1*

*Skin Sens. 1A: Skin sensitisation – Category 1A*

*Repr. 1B: Reproductive toxicity – Category 1B*

*STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1*

*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*

*Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2*

*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

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

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