



BE SURE. BUILD SURE.

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

Printing date 25.03.2022


Version number 18

Revision: 25.03.2022

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

- **Product identifier**
- **Trade name** **Nafuflex Basic 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*
- **Emergency telephone number:** *Tel.: +49 / (0)700 24112112 (MCR)  
Tel.: +48612864565*

### 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.*

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- **Precautionary statements**
  - Avoid breathing dust/fume/gas/mist/vapours/spray.
  - Avoid release to the environment.
  - Wear protective gloves.
  - 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:**

8052-42-4	Asphalt Acute Tox. 5, H313	25-50%
8050-09-7	Rosin Acute Tox. 4, H312; Skin Sens. 1, H317; Acute Tox. 5, H303	≥0.1-<0.5%
1314-13-2	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.025-<0.25%
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%
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%
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	≥0.0016-<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.
- **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.

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- **Information for doctor** Seek medical treatment.
- **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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· **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 item 7.

· **Control parameters**

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

**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. fraction; as benzene-soluble aerosol; BEIp,
WEL (Great Britain)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup>

**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:**

**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

· **Penetration time of glove material**

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· **Eye protection:**

Safety glasses

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· **Body protection:** *Impervious protective clothing*

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#### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	<i>Viscous</i>
· <b>Colour:</b>	<i>Dark brown</i>
· <b>Smell:</b>	<i>Fish-like</i>

· **pH-value at 20 °C:** *8.5-9*

· **Change in condition**

· <b>Melting point/freezing point:</b>	<i>Not determined</i>
· <b>Initial boiling point and boiling range:</b>	<i>100 °C</i>

· **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** *0.7 g/cm<sup>3</sup>*

· **Solubility in / Miscibility with**

· **Water:** *Fully miscible*

· **Viscosity:**

· **dynamic:** *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.*

· **Hazardous decomposition products:** *No dangerous decomposition products known*

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**11 Toxicological information**

- Information on toxicological effects
- Acute toxicity

· LD/LC50 values that are relevant for classification:

**8052-42-4 Asphalt**

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

**8050-09-7 Rosin**

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

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

Oral	LD50	50-300 mg/kg (rat)
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**13463-41-7 pyrrhione zinc**

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

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

Oral	LD50	125 mg/kg (ATE)
		279 mg/kg (rat)
Dermal	LD50	311 mg/kg (ATE)
Inhalative	LC50/4 h	>2000 mg/kg (rat)
		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.

**12 Ecological information**

- Toxicity

· Aquatic toxicity:

**8052-42-4 Asphalt**

EC50/72h	>1000 mg/l (algae)
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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)
<b>8050-09-7 Rosin</b>	
EC50/48h	>1000 mg/l (Daphnia magna)
<b>2682-20-4 2-methyl-2H-isothiazol-3-one</b>	
EC50/72h	0.157 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	6 mg/l (Oncorhynchus mykiss)
EC50/48h	1.68 mg/l (Daphnies)
<b>13463-41-7 pyrithione zinc</b>	
LC50/72h	0.067 mg/l (Selenastrum capricornutum)
LC50/96h	0.15 mg/l (Oncorhynchus mykiss)
EC50/48h	0.05 mg/l (Daphnies)
<b>26530-20-1 2-octyl-2H-isothiazol-3-one</b>	
EC50/48h	0.42 mg/l (Daphnien)

- **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.

**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.



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#### 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.*

#### 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*

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*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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