



BE SURE. BUILD SURE.

Page 1/8

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

Printing date 20.11.2021


Version number 7

Revision: 15.11.2021

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

- **Product identifier**
- **Trade name** Muraplast FK 88
- **Relevant identified uses of the substance or mixture and uses advised against** *No further relevant information available.*
- **Application of the substance / the mixture** *Concrete/Mortar admixtures*
- **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 3 H402 Harmful 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-octyl-2H-isothiazol-3-one*
- **Hazard statements** *May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.*
- **Precautionary statements** *Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid release to the environment.*

(Contd. on page 2)

AE



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

Printing date 20.11.2021

Version number 7

Revision: 15.11.2021

Trade name Muraplast FK 88

(Contd. of page 1)

*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:**

	Naphthalinsulfonsäure-Formaldehyd-Kondensat Na-Ca-Mischsalz, 40% ige wässrige Lösung Acute Tox. 5, H303	25-50%
126-71-6	triisobutyl phosphate Skin Sens. 1, H317	≥0.1-<0.5%
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	≥0.0025-<0.025%

4 First aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Void
- **After skin contact** The product is not skin irritating.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Rinse out mouth and then drink plenty of water.
In case of persistent symptoms consult doctor.
- **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.

AE

(Contd. on page 3)



BE SURE. BUILD SURE.

Page 3/8

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

Printing date 20.11.2021

Version number 7

Revision: 15.11.2021

Trade name Muraplast FK 88

(Contd. of page 2)

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** Void
- **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.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

(Contd. on page 4)

AE



BE SURE. BUILD SURE.

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

Printing date 20.11.2021

Version number 7

Revision: 15.11.2021

Trade name Muraplast FK 88

(Contd. of page 3)

- **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**

126-71-6 triisobutyl phosphate

Oral	DNEL	2.13 mg/kg bw/Tag (ArL)
Dermal	DNEL	4.25 mg/kg bw/day (ArL)
Inhalative	DNEL	50 mg/m ³ (ArL)

· **PNECs**

126-71-6 triisobutyl phosphate

PNEC	3.72 mg/l (Kla)
	0.0011 mg/l (Mew)
	0.011 mg/l (Suw)
PNEC	0.308 mg/kg dwt (Bod)
	0.158 mg/kg dwt (Sediment)
	1.58 mg/kg dwt (Fresh water sediment)

- **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:** *Not required.*
- **Protection of hands:** *Protective gloves.*
- **Material of gloves** *Nitrile rubber, NBR
Natural rubber, NR*
- **Penetration time of glove material** *-*
- **Eye protection:** *Safety glasses*
- **Body protection:** *Impervious protective clothing*

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - **Form:** *Fluid*
 - **Colour:** *Dark brown*
 - **Smell:** *Characteristic*
- **pH-value at 20 °C:** *6*

(Contd. on page 5)



BE SURE. BUILD SURE.

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

Printing date 20.11.2021

Version number 7

Revision: 15.11.2021

Trade name Muraplast FK 88

(Contd. of page 4)

· Change in condition Melting point/freezing point:	<i>Not applicable</i>
Initial boiling point and boiling range:	<i>100 °C</i>
· Flash point:	<i>Not applicable</i>
· Self-inflammability:	<i>Product is not selfigniting.</i>
· Explosive properties:	<i>Product is not explosive.</i>
· Steam pressure at 20 °C:	<i>23 hPa</i>
· Density at 20 °C	<i>1.20 g/cm³</i>
· Solubility in / Miscibility with Water:	<i>Fully miscible</i>
· Viscosity: dynamic at 20 °C:	<i><100 mPas</i>
· Other information	<i>No further relevant information available.</i>

10 Stability and reactivity

· Reactivity	<i>No further relevant information available.</i>
· Chemical stability	
· Thermal decomposition / conditions to be avoided:	<i>No decomposition if used according to specifications.</i>
· Possibility of hazardous reactions	<i>No dangerous reactions known</i>
· Conditions to avoid	<i>No further relevant information available.</i>
· Incompatible materials:	<i>No further relevant information available.</i>
· Hazardous decomposition products:	<i>No dangerous decomposition products known</i>

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values that are relevant for classification:**

**Naphthalinsulfonsäure-Formaldehyd-Kondensat
Na-Ca-Mischsalz, 40% ige wässrige Lösung**

Oral	LD50	>2000 mg/kg (rat)
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126-71-6 triisobutyl phosphate

Oral	LD50	>5000 mg/kg (rat)
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Dermal	LD50	>5000 mg/kg (rabbit)
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(Contd. on page 6)



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

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Version number 7

Revision: 15.11.2021

Trade name Muraplast FK 88

(Contd. of page 5)

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) >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:**

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
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:**

Naphthalinsulfonsäure-Formaldehyd-Kondensat Na-Ca-Mischsalz, 40% ige wässrige Lösung

LC50/96h	>1000 mg/l (Brachydanio rerio)
EC50/48h	>10000 mg/l (Pseudomonas putida) >200 mg/l (Daphnien)

126-71-6 triisobutyl phosphate

EC50/24h	10-100 mg/l (Daphnia magna)
EC50/72h	10-100 mg/l (Scenedesmus subspicatus)
LC50/96h	>100 mg/l (Oncorhynchus mykiss) 10-100 mg/l (Leucidus idus)
EC50	>100 mg/l (Pseudomonas putida)
NOEC	37 mg/l (BEL)

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.

(Contd. on page 7)



BE SURE. BUILD SURE.

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Printing date 20.11.2021

Version number 7

Revision: 15.11.2021

Trade name Muraplast FK 88

(Contd. of page 6)

- **Additional ecological information:**
- **General notes:** *Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even 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:** *Packaging can be reused or recycled after cleaning.*
- **Recommended cleaning agent:** *Water, if necessary with cleaning agent.*

14 Transport information

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

AE

(Contd. on page 8)



BE SURE. BUILD SURE.

Page 8/8

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

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Revision: 15.11.2021

Trade name Muraplast FK 88

(Contd. of page 7)

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
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)
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. 3: Acute toxicity – Category 3
Acute Tox. 5: Acute toxicity – Category 5
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
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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