



BE SURE. BUILD SURE.

Page 1/8

Safety Data Sheet according to P.U.(A) 310/2013

Printing date 12.05.2023

Version number 19


Revision: 12.05.2023

1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name** Muraplast FK 88
- **Recommended use of the chemical and restrictions on use** *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*

2 Hazard identification

- **Classification of the substance or mixture**
Skin Sens. 1 H317 May cause allergic skin reaction.
- **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 allergic skin reaction.*
- **Precautionary statements** *Avoid breathing dust/fume/ gas/mist/vapours/spray.
Wear protective gloves.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*

(Contd. on page 2)

MY



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Safety Data Sheet according to P.U.(A) 310/2013

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Trade name Muraplast FK 88

· **vPvB:**

Not applicable.

(Contd. of page 1)

3 Composition and information of the ingredients of the hazardous chemical

· **Chemical characterisation: Mixtures**

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

· **Dangerous components:**

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. 1, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	≥0.0015-<0.0025%

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.

5 Fire-fighting 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.

(Contd. on page 3)



BE SURE. BUILD SURE.

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Printing date 12.05.2023

Version number 19

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Trade name Muraplast FK 88

(Contd. of page 2)

- **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.
- **Storage class** 12
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and 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:** 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 (K1a)
	0.0011 mg/l (Mew)
	0.011 mg/l (Suw)
PNEC	0.308 mg/kg dwt (Bod)

(Contd. on page 4)



BE SURE. BUILD SURE.

Safety Data Sheet according to P.U.(A) 310/2013

Printing date 12.05.2023

Version number 19

Revision: 12.05.2023

Trade name Muraplast FK 88

(Contd. of page 3)

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

· Change in condition

Melting point/freezing point	Not determined Not applicable
Initial boiling point and boiling range 100 °C	

· Flash point: Not applicable

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive.

· Steam pressure at 20 °C: 23 hPa

· Density at 20 °C: 1.2 g/cm³

· Solubility in / Miscibility with

Water: Fully miscible

· Viscosity:

dynamic at 20 °C:	<100 mPas
kinematic:	Not determined.

(Contd. on page 5)

MY



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Printing date 12.05.2023

Version number 19

Revision: 12.05.2023

Trade name Muraplast FK 88

(Contd. of page 4)

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

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

LD/LC50 values that are relevant for classification:

126-71-6 triisobutyl phosphate

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

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 or eye irritation** No irritant effect.
- **Respiratory / skin sensitization** 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.

MY

(Contd. on page 6)



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Safety Data Sheet according to P.U.(A) 310/2013

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Version number 19

Revision: 12.05.2023

Trade name Muraplast FK 88

(Contd. of page 5)

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

126-71-6 triisobutyl phosphate

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

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

EC50/48h	0.42 mg/l (<i>Daphnien</i>)
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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:** Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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

13 Disposal information

· **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 Transportation information

· **UN-Number**

· **ADR, ADN, IMDG, IATA** Void

· **UN proper shipping name**

· **ADR, ADN, IMDG, IATA** Void

(Contd. on page 7)



BE SURE. BUILD SURE.

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Revision: 12.05.2023

Trade name Muraplast FK 88

(Contd. of page 6)

· 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

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **EHS reference list**

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

· **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)

(Contd. on page 8)



BE SURE. BUILD SURE.

Page 8/8

Safety Data Sheet according to P.U.(A) 310/2013

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Trade name Muraplast FK 88

(Contd. of page 7)

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 - oral – Category 3

Acute Tox. 2: Acute toxicity - oral – Category 2

Skin Corr. 1: Skin corrosion or irritation – Category 1

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

Skin Sens. 1: Skin sensitization – Category 1

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

Aquatic Chronic 1: Hazardous to the aquatic environment - chronic hazard – Category 1

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

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