



BE SURE. BUILD SURE.

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

Printing date 20.11.2021


Version number 7

Revision: 15.11.2021

### 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*
- **Emergency telephone number:** *Tel.: +49 / (0)700 24112112 (MCR)  
Tel.: +48612864565*

### 2 Hazard identification

- **Classification of the substance or mixture**  
*Skin Sens. 1 H317 May cause allergic skin reaction.  
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 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.  
Wear protective gloves.*

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

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.

· **vPvB:** Not applicable.

### 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<br>Skin Sens. 1, H317   | ≥0.1-<0.5%      |
| 26530-20-1 | 2-octyl-2H-isothiazol-3-one<br>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 | ≥0.0025-<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.

### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents** Void

· **Special hazards arising from the substance or mixture**

No further relevant information available.

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- **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 and 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:** 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) |

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Inhalative DNEL 50 mg/m<sup>3</sup> (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:**

|                |                |
|----------------|----------------|
| <b>Form:</b>   | Fluid          |
| <b>Colour:</b> | Dark brown     |
| <b>Smell:</b>  | Characteristic |

**· pH-value at 20 °C:** 6

**· Change in condition**

|  |                |
|--|----------------|
| <b>Melting point/freezing point</b>            | Not applicable |
| <b>Initial boiling point and boiling range</b> | 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

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|  |  |
|--|--|
| · <b>Density at 20 °C</b>                        | 1.20 g/cm <sup>3</sup>                     |
| · <b>Solubility in / Miscibility with Water:</b> | Fully miscible                             |
| · <b>Viscosity:<br/>dynamic at 20 °C:</b>        | <100 mPas                                  |
| · <b>Other information</b>                       | No further relevant information available. |

#### 10 Stability and reactivity

|  |   |
|--|---|
| · <b>Reactivity</b>  | No further relevant information available.            |
| · <b>Chemical stability</b>                                |   |
| · <b>Thermal decomposition / conditions to be avoided:</b> | No decomposition if used according to specifications. |
| · <b>Possibility of hazardous reactions</b>                | No dangerous reactions known                          |
| · <b>Conditions to avoid</b>                               | No further relevant information available.            |
| · <b>Incompatible materials:</b>                           | No further relevant information available.            |
| · <b>Hazardous decomposition products:</b>                 | 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)<br>279 mg/kg (rat)   |
| Dermal     | LD50     | 311 mg/kg (ATE)<br>>2000 mg/kg (rat) |
| Inhalative | LC50/4 h | 0.27 mg/l (ATE)<br>0.6 mg/l (rat)    |

- **Primary irritant effect:**
- **Serious eye damage or eye irritation** No irritant effect.
- **Respiratory / skin sensitization** No sensitizing effect known.

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**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:**

**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> ) |
|----------|-------------------------------|

**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 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 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.

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· **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

· **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.

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· **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 - 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  
Aquatic Chronic 3: Hazardous to the aquatic environment - chronic hazard – Category 3

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

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