

# HydroBond 2K-Flex

Thick, Bitumen Waterproof Coating (Part A - Bitumen)

Revision: 3.0 - 28<sup>th</sup> August 2025  
Code: HB-2K

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product Identifier

- Product name Newton HydroBond 2K-Flex
- Product code HB-2K

### PART A - BITUMEN

### Relevant identified uses of the substance and uses advised against

- Use of substance/mixture Highly flexible, polystyrene-filled, polymer-coated, 2-component bitumen thick coating

### Details of the Supplier of the Material Safety Data Sheet

- Company Address Newton Waterproofing Systems, Newton House, 17-20 Sovereign Way, Tonbridge, Kent TN9 1RH
- Web [www.newtonwaterproofing.co.uk](http://www.newtonwaterproofing.co.uk)
- Email address of the competent person [info@newtonwaterproofing.co.uk](mailto:info@newtonwaterproofing.co.uk)
- Emergency telephone number +44 (0)1732 360095: 08:00/17:30 (GMT) Mon-Thur & 08:00/17:00 (GMT) Fri

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture Product Identifier

- Classification under CLP The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Physical Hazards Flam. Liq. 3 - H226

### 2.2 Label Elements

According to EC directives or the corresponding national regulations the product does not have to be labelled

- Hazard statements
- Supplimental hazard information EUH208 - Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

- 2.3 Other Hazards NDA

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.2 Mixture NDA

## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures

- General information In case of accident or illness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended
- Inhalation No special measures are necessary
- Ingestion Rinse mouth. Drink water in little sips (dilution effect). Get medical advice/attention if you feel unwell

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- Skin contact After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician
- Eye contact In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- General information No known symptoms to date

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

- Suitable extinguishing media Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Foam
- Unsuitable extinguishing media Full water jet

### 5.2 Special Hazards Arising from the Material

- Hazardous combustion products Burning produces heavy smoke

### 5.3 Advice for Firefighters

- Special protective equipment for firefighters  
Wear a self-contained breathing apparatus and chemical protective clothing

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Personal precautions Remove persons to safety. Use personal protection equipment
- Personal equipment Wear protective gloves/protective clothing/eye protection/face protection

### 6.1.2 For emergency responders

- Personal protection equipment See section 8

### 6.2 Environmental Precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil

### 6.3 Methods and Materials for Containment and Cleaning Up

- For containment Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents)
- For cleaning up Dilute with plenty of water. Retain contaminated washing water and dispose it

### 6.4 Reference to Other Sections

For personal protection, see Section 7. For personal protection, see Section 8. For waste disposal, see Section 13

### 6.5 Additional information

Collect spillage

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

#### Protective measures

- Advice on safe handling Wear personal protection equipment (refer to section 8)
- Fire prevent measures No special fire protection measures are necessary
- Advices on general occupational hygiene  
When using do not eat, drink or smoke. Avoid contact with eyes and skin

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

- Storage precautions Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. storage temperature: 5-35°C
- Storage class (TRGS 510, Germany): 12 – non-combustible liquids that cannot be assigned to any of the above storage classes

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## Thick, Bitumen Waterproof Coating (Part A - Bitumen)

### 7.3 Specific End Use(es)

- Industrial sector specific solutions Bituminous emulsions
- GISCODE BBP10

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

#### Workplace Exposure Limits (WEL)

Substance	CAS No.:	EC No.:	Long-term exposure limit (8hr TWA reference period)		Short-term exposure limit (15 minute reference period)		Comments
			ppm	mg / m <sup>3</sup>	ppm	mg / m <sup>3</sup>	
Asphalt	8052-42-4	232-490-9		5		10	N/A

8.1.2 Biological limit values No data available

8.1.3 DNEL-/PNEC-values No data available

### 8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls No data available

#### 8.2.2 Personal Protective Equipment



- Eye / face protection Eye glasses with side protection DIN EN 166
- Skin protection Tested protective gloves must be worn EN ISO 374 Suitable material: Break through time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration
- Respiratory protection Respiratory protection necessary at: spray application

8.2.3 Environmental exposure controls No data available

### 8.3 Additional information

- Further information See technical data sheet

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

- Appearance
  - (i) Form Paste
  - (ii) Colour Black
- Odour Odourless
- Melting point Not determined
- Freezing point  $\geq 0$  °C
- Initial boiling point/range  $\geq 100$  °C
- Decomposition temperature Not determined
- Flash point/self-ignition Not determined

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## Thick, Bitumen Waterproof Coating (Part A - Bitumen)

• Evaporation rate	Not determined
• Auto-ignition temperature	Not determined
• Upper/lower flammability or explosive limits	Not determined
• Vapour pressure	Not determined
• Vapour density	Not determined
• Density	0.65 – 0.68 g/cm <sup>3</sup> @ 20°C
• Relative density	Not determined
• Bulk density	Not determined
• Solubility in water	Miscible
• Partition coefficient n-octanol/water	Not determined
• Dynamic viscosity	Not determined
• Explosive properties	Not considered to be explosive
• Kinematic viscosity	Not determined
• Volatile organic compounds (VOC) content in percent by weight:	Not determined

**9.2 Other Information** No data available

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	The product itself is not combustible, it is however slightly oxidising (active oxygen content approx. 2%)
<b>10.2 Chemical Stability</b>	The product is chemically stable under recommended conditions of storage, use and temperature
<b>10.3 Possibility of Hazardous Reactions</b>	No hazardous reaction when handled and stored according to provisions
<b>10.4 Conditions to Avoid</b>	No data available
<b>10.5 Incompatible Materials to Avoid</b>	No data available
<b>10.6 Hazardous Decomposition Products</b>	Does not decompose when used for intended uses

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

Substance name	Toxicological information
Asphalt CAS No.: 8052-42-4 EC No.: 232-490-9	<b>LD<sub>50</sub> oral:</b> > 5,000 mg/kg (Rat) Gestis <b>LD<sub>50</sub> dermal:</b> > 2,000 mg/kg (Rabbit) Gestis

Accute toxicity - oral	Based on available data, the classification criteria are not met
Accute toxicity - dermal	Based on available data, the classification criteria are not met
Accute toxicity - inhalation	Based on available data, the classification criteria are not met
Skin corrosion/irritation	Due to its pH value (see section 9), irritation of the skin and eyes cannot be ruled out
Serious eye damage/irritation	Due to its pH value (see section 9), irritation of the skin and eyes cannot be ruled out
Respiratory or skin sensitisation	Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction

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## Thick, Bitumen Waterproof Coating (Part A - Bitumen)

Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
Specific target organ toxicity	
STOT - single exposure	Based on available data, the classification criteria are not met
STOT - repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Additional information	No data available
<b>11.2 Information on Other hazards</b>	No data available

## 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity	No data available
12.2. Persistence and degradability	No data available
12.3. Bioaccumulative potential	No data available
12.4. Mobility in soil	No data available
12.5. Results of PBT and vPvB assessment	
	No data available
12.6. Endocrine disrupting properties	No data available
12.7. Other adverse effects	No data available

## 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods	Dispose of waste according to applicable legislation
13.1 .1 Product/Packaging disposal	Waste codes/waste designations according to EWC/AVV
Waste code product:	08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09
Waste code packaging:	08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09
13.1 .2 Waste treatment options	Waste codes/waste designations according to EWC/AVV
Appropriate disposal / Product:	Consult the appropriate local waste disposal expert about waste disposal
Appropriate disposal / Package:	Completely emptied packages can be recycled
13.2 Additional information	The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process

## 14. TRANSPORT INFORMATION

General information	Not dangerous good in sense of these transport regulations
14.1 UN Number	Not relevant
14.2 UN Proper Shipping Name	Not relevant
14.3 Transportation Hazard Class(es)	Not relevant
14.4 Packing Group	Not relevant
14.5 Environmental Hazards	Not relevant
14.6 Special Precautions for User	Not relevant
14.7 Transport in Bulk	Not relevant

# HydroBond 2K-Flex

## Thick, Bitumen Waterproof Coating (Part A - Bitumen)

### 15. REGULATORY INFORMATION

#### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance, Mixture or Article

No data available

#### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required

### 16. OTHER INFORMATION

#### 16.1 Indication of changes

No data available

#### 16.2 Abbreviations and acronyms

No data available

#### 16.3 Key literature references and sources for data

No data available

#### 16.4 Classification for mixtures and used evaluation method according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

- Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]

#### 16.5 Relevant R-, H- and EUH-phrases (Number and full text)

No data available

#### 16.6 Training advice

No data available

#### 16.7 Additional information

The information in this safety data sheet corresponds to the best of our knowledge at the time of printing. The information should give you indications for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. Insofar as the product is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be transferred to the new material produced in this way. Follow instructions for use on the label

# HydroBond 2K-Flex

Thick, Bitumen Waterproof Coating (Part B - Powder)

Revision: 2.0 - 10<sup>th</sup> October 2022  
Code: HB-2K

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product Identifier

- Product name: Newton HydroBond 2K-Flex
- Product code: HB-2K

### PART B - POWDER

### Relevant identified uses of the substance and uses advised against

- Use of substance/mixture: Mixing component for bitumen coatings. All uses that are not stated are advised against

### Details of the Supplier of the Material Safety Data Sheet

- Company Address: Newton Waterproofing Systems, Newton House, 17-20 Sovereign Way, Tonbridge, Kent TN9 1RH
- Web: [www.newtonwaterproofing.co.uk](http://www.newtonwaterproofing.co.uk)
- Email address of the competent person: [info@newtonwaterproofing.co.uk](mailto:info@newtonwaterproofing.co.uk)
- Emergency telephone number: +44 (0)1732 360095: 08:00/17:30 (GMT) Mon-Thur & 08:00/17:00 (GMT) Fri

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture Product Identifier

- Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage	Calculation method

- Additional information: Cement product for which the amount of chromium VI was decreased to < 0,0002 % by a reduction agent (related to the total dry weight).

### 2.2 Label Elements

- Labelling according to Regulation (EC) No 1272/2008 [CLP]
- Hazard pictograms



GHS05

Corrosion

- Signal word: Danger

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## Thick, Bitumen Waterproof Coating (Part B - Powder)

- Hazard components for labelling: Cement, portland, chemicals; Flue dust, portland cement

Hazard statements for health hazards	
H315	Causes skin irritation
H318	Causes serious eye damage

Supplemental hazard information	
EUH208	Contains Flue dust, portland cement. May produce an allergic reaction.

Precautionary statements	
P102	Keep out of reach of children

Precautionary statements - Prevention	
P280	Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements - Response	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332 + P313	If skin irritation occurs: Get medical advice/attention






### 2.3 Other Hazards

- Other adverse effects: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixture

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 14808-60-7 EC No.: 238-878-4 REACH No.: 01-2120770509-45-XXXX	<b>Quartz (SiO<sub>2</sub>)</b> Substance with a community workplace exposure limit. -----	46 – < 80 weight-%
CAS No.: 68475-76-3 EC No.: 270-659-9 REACH No.: 01-211948676717-XXXX	<b>Flue dust, portland cement</b> Eye Dam. 1 (H318), STOT SE 3 (H335), Skin Irrit. 2 (H315), Skin Sens. 1B (H317)   Danger <b>Acute Toxicity Estimate</b> ATE (dermal) > 2,000 mg/kg	8 – < 14.07 weight-%
CAS No.: 7488-55-3 EC No.: 231-302-2 REACH No.: 01-2119560591-39-XXXX	<b>tin sulphate</b> Acute tox. 4 (H332), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), STOT RE 1 (H372), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)    Danger <b>Acute Toxicity Estimate</b> ATE (oral) 2.207 mg/kg ATE (inhalation, dust/mist) 2mg/L	0 – ≤ 0.0002 weight-%

Full text of H- and EUH-phrases: see section 16.



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## Thick, Bitumen Waterproof Coating (Part B - Powder)

### 4. FIRST AID MEASURES

#### 4.1 Description of First Aid Measures

- General information In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. First aider: Pay attention to self-protection!
- Following inhalation: Provide fresh air. In case of respiratory tract irritation, consult a physician.
- In case of skin contact: Wash with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention
- After eye contact: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
- Following ingestion: Rinse mouth. Get medical advice/attention if you feel unwell.
- Self-protection of the first aider: Use personal protection equipment.

#### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Serious eye damage/eye irritation

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

- Suitable extinguishing media Co-ordinate fire-fighting measures to the fire surroundings
- Unsuitable extinguishing media: Full water jet

#### 5.2 Special Hazards Arising from the Material

Hazardous combustion products: No known hazardous reactions. The product itself does not burn  
In case of fire: Gases/vapours, toxic

#### 5.3 Advice for Firefighters

Wear a self-contained breathing apparatus and chemical protective clothing

#### 5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1 For non-emergency personnel

- Personal precautions Avoid dust formation. Remove persons to safety.
- Personal equipment Wear protective gloves/protective clothing/eye protection/face protection.

##### 6.1.2 For emergency responders

- Personal protection equipment Respiratory protection necessary at: dust formation, Personal protection equipment: see section 8

#### 6.2 Environmental Precautions

Do not allow to enter into surface water or drains

# HydroBond 2K-Flex

## Thick, Bitumen Waterproof Coating (Part B - Powder)

### 6.3 Methods and Materials for Containment and Cleaning Up

- For containment Collect spillage. Measures to prevent aerosol and dust generation - Wet clean or vacuum up solids. Treat the recovered material as prescribed in the section on waste disposal.
- For cleaning up Take up mechanically, placing in appropriate containers for disposal. Water (with cleaning agent)

### 6.4 Reference to Other Sections

Personal protection equipment: see section 8 Disposal: see section 13 Safe handling: see section 7

### 6.5 Additional information

Use appropriate container to avoid environmental contamination

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

#### Protective measures

- Advice on safe handling Wear personal protection equipment (refer to section 8). Do not breathe dust
- Fire prevent measures No special fire protection measures are necessary
- Measures to prevent aerosol and dust generation  
Do not use a dry brush as dust clouds or static can be created. Dust should be exhausted directly at the point of origin. Additional measures for respiratory protection: Dust mask High efficiency particulate air filter (HEPA filter)
- Environmental precautions No special environmental measures are necessary

#### Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

- Technical measures and storage conditions: Store in a cool dry place. Keep container tightly closed in a cool, well-ventilated place.
- Storage class (TRGS 510, Germany): 13 – Non-combustible solids that cannot be assigned to any of the above storage classes

### 7.3 Specific End Use(es)

- Industrial sector specific solutions Products containing cement, low in chromate
- GISCODE ZP1

# HydroBond 2K-Flex

## Thick, Bitumen Waterproof Coating (Part B - Powder)

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control Parameters

##### 8.1.1 Occupational exposure limit values

Limit value type (country of origin)	Substance name	1 Long-term occupational exposure limit value 2 Short-term occupational exposure limit value 3 Instantaneous value 4 Monitoring and observation processes 5 Remark
BOELV (EU) from 16 Jan 2018	Quartz (SiO <sub>2</sub> ) CAS No.: 14808-60-7 EC No.: 238-878-4	1. 0.1 mg/m <sup>3</sup> 5. (respirable crystalline silica)
IOELV (EU)	tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	1. 2mg/m <sup>3</sup>
TRGS 900 (DE) from 2 Jul 2024	tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	1. 2 mg/m <sup>3</sup> 5. einatembare Fraktion (Zinn(IV)-Verbindungen) EU, 13, 10
TRGS 900 (DE) from 2 Jul 2024	tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	1. 8 mg/m <sup>3</sup> 5. einatembare Fraktion (Zinn(IV)-Verbindungen) EU, AGS, 10

##### 8.1.2 Biological limit values

No data available

##### 8.1.3 DNEL-/PNEC-values

Substance name	DNEL value	1 DNEL type 2 Exposure route
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	1.375 mg/m <sup>3</sup>	1. DNEL worker 2. Long-term - inhalation, systemic effects
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	0.289 mg/m <sup>3</sup>	1. DNEL Consumer 2. Long-term - inhalation, systemic effects
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	2.75 mg/m <sup>3</sup>	1. DNEL worker 2. Acute - inhalation, systemic effects
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	0.57 mg/m <sup>3</sup>	1. DNEL Consumer 2. Acute - inhalation, systemic effects
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	14.51 mg/m <sup>3</sup>	1. DNEL worker 2. Long-term - inhalation, local effects
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	14.51 mg/m <sup>3</sup>	1. DNEL worker 2. Acute - inhalation, local effects
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	3.05 mg/m <sup>3</sup>	1. DNEL Consumer 2. Acute - inhalation, local effects
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	0.39 mg/kg	1. DNEL worker 2. Long-term - dermal, systemic effects
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	0.195 mg/kg	1. DNEL Consumer 2. Long-term - dermal, systemic effects

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<b>tin sulphate</b> CAS No.: 7488-55-3 EC No.: 231-302-2	0.78 mg/kg	1. DNEL worker 2. Acute - dermal, systemic effects
<b>tin sulphate</b> CAS No.: 7488-55-3 EC No.: 231-302-2	0.39 mg/kg	1. DNEL Consumer 2. Acute - dermal, systemic effects
<b>tin sulphate</b> CAS No.: 7488-55-3 EC No.: 231-302-2	0.195 mg/kg	1. DNEL Consumer 2. Long-term - oral, systemic effects
<b>tin sulphate</b> CAS No.: 7488-55-3 EC No.: 231-302-2	0.39 mg/kg	1. DNEL Consumer 2. Acute - oral, systemic effects

Substance name	PNEC Value	1 PNEC type
<b>tin sulphate</b> CAS No.: 7488-55-3 EC No.: 231-302-2	0.9 mg/L	1. PNEC aquatic, freshwater
<b>tin sulphate</b> CAS No.: 7488-55-3 EC No.: 231-302-2	58 mg/kg	1. PNEC sediment, freshwater
<b>tin sulphate</b> CAS No.: 7488-55-3 EC No.: 231-302-2	0.005 mg/L	1. PNEC aquatic, intermittent release

### 8.2 Exposure Controls

**8.2.1 Appropriate Engineering Controls** No special technical protective measures are necessary.

#### 8.2.2 Personal Protective Equipment



- Eye/face protection
- Skin protection

Dust protection eye glasses Eye glasses with side protection EN 166

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Tested protective gloves must be worn EN ISO 374  
Suitable material: NBR (Nitrile rubber). In the case of wanting to use the gloves again, clean them before taking off and air them well.

- Respiratory protection

Usually no personal respirative protection necessary. dust formation: Particle filter device (DIN EN 143) Filter type: P 2

- Other protection measures:

Only wear fitting, comfortable and clean protective clothing.

**8.2.3 Environmental exposure controls** Do not allow to enter into surface water or drains.

**8.3. Additional information** Further information: see technical data sheet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

- Appearance

Physical state: Solid

Colour: Grey

Odour: Not determined

Flammability: No

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## Thick, Bitumen Waterproof Coating (Part B - Powder)

### Safety relevant basis data

Parameter	Value	at °C	Method Remark
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flash point	Not applicable		
Evaporation rate	No data available		
Auto-ignition temperature	Not applicable		
Vapour pressure	No data available		
Density	≈ 1.4 g/cm <sup>3</sup>	20 °C	
Bulk density	1.4 g/cm <sup>3</sup>	20 °C	
Water solubility	miscible		

- particle characteristics:

No data available

### 9.2 Other Information

No hazardous reaction when handled and stored according to provisions.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

The product itself does not burn

### 10.2 Chemical Stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of Hazardous Reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to Avoid

Further information on proper storage: see section 7.

### 10.5 Incompatible Materials

Further information on proper storage: see section 7.

### 10.6 Hazardous Decomposition Products

Does not decompose when used for intended uses. In case of fire: Gases/ vapours, toxic

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Cement, portland, chemicals</b> CAS No.: 65997-15-1 EC No.: 266-043-4
LD <sub>50</sub> oral: >2,000 mg/kg (rat) OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
LD <sub>50</sub> dermal: >2,000 mg/kg (Rabbit)
LD <sub>50</sub> Acute inhalation toxicity (vapour): >26.76 mg/L 7h (rat) OECD Guideline 403 (Acute inhalation Toxicity)
LD <sub>50</sub> Acute inhalation toxicity (dust/mist): >2.41 mg/L 4h (rat)
<b>Flue dust, portland cement</b> CAS No.: 68475-76-3 EC No.: 270-659-9
LD <sub>50</sub> dermal: >2,000 mg/kg
<b>tin sulphate</b> CAS No.: 7488-55-3 EC No.: 231-302-2
LD <sub>50</sub> oral: 2,207 mg/Kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
LD <sub>50</sub> Acute inhalation toxicity (dust/mist): 2 mg/L 4 h (rat) OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)

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Acute oral toxicity:	Based on available data, the classification criteria are not met
Acute dermal toxicity:	Based on available data, the classification criteria are not met
Acute inhalation toxicity:	Based on available data, the classification criteria are not met
Skin corrosion/irritation:	Based on available data, the classification criteria are not met
Serious eye damage/irritation:	Causes serious eye damage
Respiratory or skin sensitisation:	Contains Flue dust, portland cement. May produce an allergic reaction.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met
Carcinogenicity:	Based on available data, the classification criteria are not met
Reproductive toxicity:	Based on available data, the classification criteria are not met
STOT - single exposure:	Based on available data, the classification criteria are not met
STOT - repeated exposure:	Based on available data, the classification criteria are not met
Aspiration hazard:	Based on available data, the classification criteria are not met

### 11.2 Information on other hazards

Other information:	No hazardous reaction when handled and stored according to provisions.
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## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

<b>Cement, portland, chemicals</b> CAS No.: 65997-15-1 EC No.: 266-043-4
LC <sub>50</sub> : 4,555 mg/L 4 d (fish, Pimephales promelas) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC <sub>50</sub> : 42.4 mg/L 4 d (crustaceans, Americamysis bahia (previous name: Mysidopsis bahia)) EPA OPPTS 850.1035 (Mysid Acute Toxicity Test)
EC <sub>50</sub> : 69.2 mg/L 2 d (crustaceans, Americamysis bahia (previous name: Mysidopsis bahia)) EPA OPPTS 850.1035 (Mysid Acute Toxicity Test)
EC <sub>50</sub> : >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) EU Method C.3 (Algal Inhibition test)
NOEC: 3.19 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
NOEC: 126 mg/L 4 d (fish, Leuciscus idus) German Industrial Standard DIN 38412, part 15
NOEC: 3.13 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) EU Method C.3 (Algal Inhibition test)
LOEC: 4.85 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
LOEC: 6.25 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) EU Method C.3 (Algal Inhibition test)
<b>tin sulphate</b> CAS No.: 7488-55-3 EC No.: 231-302-2
LC <sub>50</sub> : 9 mg/L 4 d (fish, Tapes decussata, Venerupis aurea) see "Principles of method if other than guideline"
LC <sub>50</sub> : 55 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
EC <sub>50</sub> : 50 mg/L 2 d (Algae/water plant, scenedesmus quadricauda)
EC <sub>50</sub> : 10 mg/L 4 d (Algae/water plant, synechocystis aquatilis)
NOEC: 5 mg/L 4 d (Algae/water plant, synechocystis aquatilis)
NOEC: 0.18 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)

Additional ecotoxicological information:	There are no data available on the mixture itself.
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### 12.2. Persistence and degradability

Additional information:	There are no data available on the mixture itself.
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### 12.3. Bioaccumulative potential

<b>Cement, portland, chemicals</b> CAS No.: 65997-15-1 EC No.: 266-043-4
Log K <sub>ow</sub> : 1.62
Bioconcentration factor (BCF): 0.88

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Bioconcentration factor (BCF):

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

Quartz (SiO <sub>2</sub> ) CAS No.: 14808-60-7 EC No.: 238-878-4
Results of PBT and vPvB assessment: —
Cement, portland, chemicals CAS No.: 65997-15-1 EC No.: 266-043-4
Results of PBT and vPvB assessment: —
Flue dust, portland cement CAS No.: 68475-76-3 EC No.: 270-659-9
Results of PBT and vPvB assessment: —
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2
Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties No data available

12.7. Other adverse effects There are no data available on the mixture itself.

### 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods Dispose of waste according to applicable legislation

13.1.1 Product/Packaging disposal Waste codes/waste designations according to EWC/AVV

Waste code product:

17 01 01	(17) CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) (01) concrete, bricks, tiles and ceramics (01) Concrete
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Waste code packaging:

17 01 01	(17) CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) (01) concrete, bricks, tiles and ceramics (01) Concrete
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Waste treatment options

Appropriate disposal / Product: Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package: Completely emptied packages can be recycled

### 14. TRANSPORT INFORMATION

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations	No dangerous good in sense of these transport regulations	No dangerous good in sense of these transport regulations	No dangerous good in sense of these transport regulations
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations	No dangerous good in sense of these transport regulations	No dangerous good in sense of these transport regulations	No dangerous good in sense of these transport regulations



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<b>14.3. Transport hazard class(es)</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.4. Packing group</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.5. Environmental hazards</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.6. Special precautions for user</b>			
not relevant	not relevant	not relevant	not relevant

## 14.7 14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk according to MARPOL 73/78 Annex II and the IBC code

## 15. REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### 15.1.1. EU legislation

Other regulations (EU):

1. Regulation (EC) No. 1907/2006 of the European Parliament and Council from 18 December 2006 on the registration, evaluation, authorisation and restriction of chemicals (REACH), on the the establishing of a European chemicals agency, on the amending of Regulation (EC) 1999/45 and on the repeal of Regulation (EC) No. 793/93 of the Council, Regulation (EC) No. 1488/94 of the Commission, Regulation (EC) No. 76/769 of the Council and Regulations (EC) Nos. 91/155/EWG, 93/67, 93/105 and 2000/21 of the Commission, in their latest versions.

2. Regulation (EC) No. 1272/2008 of the European Parliament and Council from 16 December 2008 on the classification, labelling and packaging of substances and mixtures, amending and appealing of Regulations (EC) Nos. 67/548 and 1999/45 and in order to amend Regulation (EC) No. 1907/2006 (Official Gazette of the European Union L No. 353 from 31 December in the amended version).

3. Regulation (EC) No. 2015/830 of the Commission from 28 May 2015 on the amendment of Regulation (EC) No. 1907/2006 of the European Parliament and the Council on the registration, evaluation, authorisation and restriction of chemicals (REACH) in the amended version.

4. Regulation (EU) No. 2016/425 of the European Parliament and the Council from 9 March 2016 on personal protective equipment and the repeal of Regulation (EC) 89/686 of the Council (Official Gazette of the EU L 81 from 31 March 2016, p. 51).

#### 15.1.2. National regulations

[DE] National regulations

Water hazard class

WGK: 1 - Slightly hazardous to water

Description: Slightly hazardous to water

Technische Regeln für Gefahrstoffe

TRGS 500, TRGS 510

#### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out - it is not necessary for the mixture.



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### 16. OTHER INFORMATION

#### 16.1 Indication of changes

2.1.	Classification of the substance or mixture
2.2.	Label elements
2.3.	Other hazards
3.2.	Mixtures
4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
6.3.	Methods and material for containment and cleaning up
7.1.	Precautions for safe handling
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1	Toxicity
12.5.	Results of PBT and vPvB assessment
14.3.	Transport hazard class(es)
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.3.	Key literature references and sources for data
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

#### 16.2 Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
ECHA	European Chemicals Agency
EN	European Standard
ES	Exposure scenario
EWG	European Waste Catalogue
HEPA	High Efficiency Particulate Air
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association

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NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### 16.3 Key literature references and sources for data

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Substance name	Type	Source of supply
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	Classification of the substance or mixture; LD <sub>50</sub> oral; LC <sub>50</sub> Acute inhalation toxicity (dust/mist); LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
Cement, portland, chemicals CAS No.: 65997-15-1 EC No.: 266-043-4	LD <sub>50</sub> oral; LC <sub>50</sub> Acute inhalation toxicity (vapour); LC <sub>50</sub> Acute inhalation toxicity (dust/mist); LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC; LOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	Calculation method.

### 16.5 Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects.

### 16.6 Training advice

Follow the instructions for use on the label.

### 16.7 Additional information

The information in this safety data sheet corresponds to the best of our knowledge at the time of printing. The information should give you indications for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. Insofar as the product is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be transferred to the new material produced in this way. Follow instructions for use on the label.

\* Data changed compared with the previous version.