

HydroBond 2K-Flex

Thick, Bitumen Waterproof Coating (Part A - Bitumen)

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 Flexible, fiber-reinforced, polymer-coated, 2-component bitumen thick coating. 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, 17-19 Sovereign Way, Tonbridge, Kent TN9 1RH
- Web www.newtonwaterproofing.co.uk
- Email address of the competent person 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]
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label Elements

- Labelling according to Regulation (EC) No. 1272/2008 [CLP]
According to EC directives or the corresponding national regulations the product does not have to be labelled
- Hazard statements: None
Supplimental hazard information EUH208 - Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
- Precautionary statements: None

2.3 Other Hazards

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


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Thick, Bitumen Waterproof Coating (Part A - Bitumen)

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.: 8052-42-4 EC No.: 232-490-9 REACH No.: 01-2119480172-44-XXXX	Asphalt The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	28 – < 55 weight-%
CAS No.: 2634-33-5 EC No.: 220-120-9 REACH No.: 01-2120761540-60	1,2-benzisothiazol-3(2H)-one Acute Tox. 2 (H330), Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Danger M-factor (acute): 1 M-factor (chronic): 1	0 – ≤ 0.02 weight-%

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

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.
- Following inhalation: No special measures are necessary.
- In case of skin contact: After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.
- After eye contact: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.
- Following ingestion: Rinse mouth. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- No known symptoms to date.

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: Extinguishing powder, Carbon dioxide (CO₂), Foam
- Unsuitable extinguishing media: Full water jet

5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products: Burning produces heavy smoke. 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.

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Thick, Bitumen Waterproof Coating (Part A - Bitumen)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Workplace Exposure Limits (WEL)

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
TRGS 900 (DE) from 13 Mar 2020	Asphalt CAS No.: 8052-42-4 EC No.: 232-490-9	1. 1.5 mg/m ³ 2. 3 mg/m ³ 3. (kann über die Haut aufgenommen werden, Aerosol und Dampf) DFG, H, 11, 33, 34

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
Asphalt CAS No.: 8052-42-4 EC No.: 232-490-9	2.88 mg/m ³	1. DNEL worker 2. Long-term – inhalation, local effects
Asphalt CAS No.: 8052-42-4 EC No.: 232-490-9	0.61 mg/m ³	1. DNEL Consumer 2. Long-term – inhalation, local effects

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:

Eye glasses with side protection EN 166

- Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: NBR (Nitrile rubber) Breakthrough times and swelling properties of the material must be taken into consideration. In the case of wanting to use the gloves again, clean them before taking off and air them well.

- Respiratory protection:

Respiratory protection necessary at: spray application

- Other protection measures:

Spray application: Disposable suit

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.

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Thick, Bitumen Waterproof Coating (Part A - Bitumen)

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

• Physical state:	Liquid
• Colour	Black
• Odour	Odourless
• pH	11 – 11.4 at 20 °C
• Melting point	No data available
• Freezing point	≈ 0 °C
• Initial boiling point/range	≈ 100 °C
• Flash point	No data available
• Evaporation rate	No data available
• Auto-ignition temperature	No data available
• Upper/lower flammability or explosive limits	No data available
• Vapour pressure	No data available
• Vapour density	No data available
• Density	1.03 g/cm ³ at 20 °C
• Bulk density	Not applicable
• Water solubility	Miscible
• Dynamic viscosity	No data available
• Kinematic viscosity	No data available at 40 °C
• Volatile organic compounds (VOC) content in percent by weight:	0 %

9.2 Other Information No hazardous reaction when handled and stored according to provisions.

10. STABILITY AND REACTIVITY

10.1 Reactivity	The product itself is not combustible, it is however slightly oxidising (active oxygen content approx. 2%)
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 to Avoid	Further information on proper storage: see section 7.
10.6 Hazardous Decomposition Products	Does not decompose when used for intended uses.

11. TOXICOLOGICAL INFORMATION

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

Asphalt CAS No.: 8052-42-4 EC No.: 232-490-9
LD50 oral: >5,000 mg/kg (Rat) Gestis
LD50 dermal: >2,000 mg/kg (Rabbit) Gestis
1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9
LD50 oral: 500 mg/kg
LD50 dermal: >2,000 mg/kg (Rat)

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.

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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:	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	Contains 1,2-benzisothiazol-3(2H)-one. 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.
Additional information:	No data available

11.2 Information on other hazards

Other information: No hazardous reaction when handled and stored according to provisions.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9
LC ₅₀ : 2.15 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC ₅₀ : 0.07 mg/L 3 d (Algae/water plant, <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i>)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC ₅₀ : 2.9 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) OECD Guideline 202 (<i>Daphnia</i> sp. Acute Immobilisation Test)
NOEC: 0.0403 mg/L 3 d (Algae/water plant, <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i>)) OECD Guideline 201 (Alga, Growth Inhibition Test)

Additional ecotoxicological information: There are no data available on the mixture itself.

12.2. Persistence and degradability

1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9
Biodegradation: Yes, rapidly

Additional information: There are no data available on the mixture itself.

12.3. Bioaccumulative potential No data available

1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9
Log K _{ow} : 117
Bioconcentration factor (BCF): 6.95

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

Asphalt CAS No.: 8052-42-4 EC No.: 232-490-9
Results of PBT and vPvB assessment: —
1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9
Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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

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

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL 73/78 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.

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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

15.2. Chemical Safety Assessment

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

16. OTHER INFORMATION

16.1 Indication of changes

4.1. Description of first aid measures

5.2. Special hazards arising from the substance or mixture

6.1. Personal precautions, protective equipment and emergency procedures

6.3. Methods and material for containment and cleaning up

16.1. Indication of changes

16.2. Abbreviations and acronyms

16.3. Key literature references and sources for data

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

EC₅₀ Effective Concentration 50%

EN European Standard

ES Exposure scenario

EWC European Waste Catalogue

IBC Intermediate Bulk Container

ICAO International Civil Aviation Organization

IMDG International Maritime Dangerous Goods

IMO International Maritime Organization

ISO International Standards Organisation

LC₅₀ Lethal (fatal) Concentration 50%

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LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
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
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds

16.3. Key literature references and sources for data

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

Substance name	Type	Source of supply
1,2-benzisothiazol-3(2H)-one CAS No.: 2634-33-5 EC No.: 220-120-9	LC _{50'} ; EC _{50'} ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/

16.4 Classification for mixtures and used evaluation method 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. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

16.6 Training advice

Observe technical data sheet.

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)

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

Product Identifier

- Product name Newton HydroBond 2K-Flex (part B powder)
- Product code HB-2K

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, 17-19 Sovereign Way, Tonbridge, Kent TN9 1RH
- Web www.newtonwaterproofing.co.uk
- Email address of the competent person 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
- Hazard components for labelling: Cement, portland, chemicals; Flue dust, portland cement; tin sulphate

Hazard statements for health hazards	
H318	Causes serious eye damage

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

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Precautionary statements	
P102	Keep out of reach of children
Precautionary statements - Prevention	
P280	Wear protective gloves.
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	Quartz (SiO₂) Substance with a community workplace exposure limit.	46 – < 80 weight-%
CAS No.: 65997-15-1 EC No.: 266-043-4	Cement, portland, chemicals Eye Dam. 1 (H318), STOT SE 3 (H335), Skin Irrit. 2 (H315), Skin Sens. 1B (H317)   Danger Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 26.76 mg/L ATE (inhalation, dust/mist) 2.41 mg/L	2 – < 3.5 weight-%
CAS No.: 68475-76-3 EC No.: 270-659-9 REACH No.: 01-2119486767-17-XXXX	Flue dust, portland cement Eye Dam. 1 (H318), STOT SE 3 (H335), Skin Irrit. 2 (H315), Skin Sens. 1B (H317)   Danger Acute Toxicity Estimate ATE (dermal) > 2,000 mg/kg	0 – < 0.18 weight-%
CAS No.: 7488-55-3 EC No.: 231-302-2 REACH No.: 01-2119560591-39-XXXX	tin sulphate 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 Acute Toxicity Estimate ATE (oral) 2,207 mg/kg ATE (inhalation, dust/mist) 2 mg/L	0 – ≤ 0.0002 weight-%

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

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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

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)

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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

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 (SiO₂) CAS No.: 14808-60-7 EC No.: 238-878-4	1. 0.1 mg/m ³ 5. (respirable crystalline silica)
IOELV (EU)	tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	1. 2mg/m ³
TRGS 900 (DE) from 2 Jul 2024	tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	1. 2 mg/m ³ 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 ³ 5. einatembare Fraktion (Zinn(IV)-Verbindungen) EU, AGS, 10

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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 ³	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 ³	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 ³	1. DNEL worker 2. Acute - inhalation, systemic effects
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	0.57 mg/m ³	1. DNEL Consumer 2. Acute - inhalation, systemic effects
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	14.51 mg/m ³	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 ³	1. DNEL worker 2. Acute - inhalation, local effects
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	3.05 mg/m ³	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
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	0.78 mg/kg	1. DNEL worker 2. Acute - dermal, systemic effects
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	0.39 mg/kg	1. DNEL Consumer 2. Acute - 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 - oral, systemic effects
tin sulphate 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
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	0.9 mg/L	1. PNEC aquatic, freshwater
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	58 mg/kg	1. PNEC sediment, freshwater
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2	0.005 mg/L	1. PNEC aquatic, intermittent release

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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 Dust protection eye glasses Eye glasses with side protection EN 166
- Skin protection 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

Safety relevant basis data

Parameter	Value	at °C	1. Method 2. 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 ³	20 °C	
Bulk density	1.4 g/cm ³	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.

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- 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

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

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.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Cement, portland, chemicals CAS No.: 65997-15-1 EC No.: 266-043-4
LC ₅₀ : 4,555 mg/L 4 d (fish, Pimephales promelas) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC ₅₀ : 42.4 mg/L 4 d (crustaceans, Americamysis bahia (previous name: Mysidopsis bahia)) EPA OPPTS 850.1035 (Mysid Acute Toxicity Test)
EC ₅₀ : 69.2 mg/L 2 d (crustaceans, Americamysis bahia (previous name: Mysidopsis bahia)) EPA OPPTS 850.1035 (Mysid Acute Toxicity Test)
EC ₅₀ : >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

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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)
tin sulphate CAS No.: 7488-55-3 EC No.: 231-302-2
LC ₅₀ : 9 mg/L 4 d (fish, <i>Tapes decussata</i> , <i>Venerupis aurea</i>) see "Principles of method if other than guideline"
LC ₅₀ : 55 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
EC ₅₀ : 50 mg/L 2 d (Algae/water plant, <i>scendesmus quadricauda</i>)
EC ₅₀ : 10 mg/L 4 d (Algae/water plant, <i>synechocystis aquatilis</i>)
NOEC: 5 mg/L 4 d (Algae/water plant, <i>synechocystis aquatilis</i>)
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.

12.2. Persistence and degradability

Additional information: There are no data available on the mixture itself.

12.3. Bioaccumulative potential

Cement, portland, chemicals CAS No.: 65997-15-1 EC No.: 266-043-4
Log K _{ow} : 1.62
Bioconcentration factor (BCF): 0.88

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 (SiO₂) 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
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

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.

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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.

16. OTHER INFORMATION

16.1 Indication of changes

3.2.	Mixtures
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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 ₅₀	Effective Concentration 50%
ECHA	European Chemicals Agency
EN	European Standard
ES	Exposure scenario
EWC	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 ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
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

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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 ₅₀ oral; LC ₅₀ Acute inhalation toxicity (dust/mist); LC _{50f} ; EC _{50f} ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
Cement, portland, chemicals CAS No.: 65997-15-1 EC No.: 266-043-4	LD ₅₀ oral; LC ₅₀ Acute inhalation toxicity (vapour); LC ₅₀ Acute inhalation toxicity (dust/mist); LC _{50f} ; EC _{50f} ; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/

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 List of relevant hazard statements and/or precautionary statements from sections 2 to 15

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.

Please make sure to refer to these and / or the relevant agreement which you have with Newton Waterproofing Systems.

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