

System 100

NEWTON 110 WATSTOP (PART A)

Epoxy-Cement Waterproofing Mortar & Slurry

Rev 3.0 - 16 October 2018

PRODUCT CODE - 110

SECTION 1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Identifier

- Product name Newton 110
- Product codes 110

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture Professional Use: Part A of a 3-part product, being a repair mortar and, with $\leq 40\%$ water, a waterproofing membrane/vapour barrier
- Uses advised against Not for any other use

Details of the Supplier of the Safety Data Sheet

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

SECTION 2. Hazards Identification

- Refer to Section 16 for The explanation of the abbreviations used throughout this MSDS
The full list of Hazard Phrases & Precautionary Statements stated throughout this SDS

2.1 Classification of the Substance or Mixture

- Classification under CLP

Skin Irrit. 2	H315
Skin Sens. 1	H317
Eye Irrit. 2,	H319
Muta.2,	H341
Aquatic Chronic 2	H411
- Most important adverse effects Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing generic defects (see Section 11.1). Toxic to aquatic life with long lasting effects

2.2 Label Elements

- Hazard statements As 2.1 Classification under CLP
- Signal words Warning
- Hazard pictograms



GHS07



GHS08



GHS09

- Precautionary statements

P201	Obtain special instructions before use
P280	Wear protective gloves / clothing and eye / face protection
P305+P351	IF IN EYES: Rinse cautiously with water for several minutes.
+P338	Remove contact lenses, if present and easy to do. Continue rinsing

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P308 + P313 If exposed or concerned: Get medical advice / attention
 P405 Store locked up
 P501 Dispose of contents / container to controlled waste

To be handled and used in accordance with good occupational hygiene and safety practice. Wear PPE as Section 8.2, handle and store as Section 7, manage accidental release as Section 6 and follow the instructions in the Data Sheet

- **Supplementary hazard information** N/A
- **Hazard determining component(s)** Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)
 EUH 205: Contains epoxy constituents, may cause an allergic reaction

2.3 Other Hazards

- PBT / vPvB Contains no substances that meet the REACH criteria for PBT / vPvB
- Other Hazards NDA
- Other information Classification and labelling have been made on the basis of safety data sheets of raw materials that make up the product

SECTION 3. Composition/information on ingredients

3.2 Mixture This product is a mixture

Hazardous Substances

Chemical name	CAS	EINECS	REACH Registration Number	Percentage	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5	01-2119456619-26	30-40	Skin Irrit.2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
2,3 epoxypropyl neodecaboate	26761-45-5	247-979-2	01-2119431597-33	5-7	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411 Muta. 2, H341
Poly(oxy-1,2-Ethanediy), (a)-(nonylphenyl)	68412-54-4	500-209-1	-	0-1.5	Aquatic Chronic 3, H412
Quartz (SiO ₂)	14808-60-7			N/A	Not classified

Additional information Contains quartz (SiO₂) fully subsumed into the formulation during production so is in a non-threatening form and therefore not inhalable

Impurities Does not contain impurities relevant for Classification and Labelling

NB Refer to Section 8 for Personal Protection / Exposure Controls
 Refer to Section 16 for the full text of Hazard and EU Hazard Statements

SECTION 4. First Aid Measures

4.1 Description of First Aid Measures

- **General** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice, taking this SDS to show the doctor.
- **Contaminated clothing, tools etc** **IMPORTANT** refer to SECTION 13 - Disposal Considerations
- **Skin contact** Remove contaminated clothing. Gently remove all traces of product and gently wash with soap and water. Continue to rinse for at least 10 minutes. If

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- Eye contact
skin irritation or rash occurs seek medical advice. See Section 13 for washing or disposal of contaminated clothing and boots
Do not rub. Immediately flush eyes with water for at least 15 minutes holding the eyelids open. Remove contact lenses if present and easy to do so, then continue to rinse for 15 minutes. If eye irritation persists, seek medical advice / attention
- Ingestion
Wash out mouth with water. Drink 1 to 2 glasses of water. Do not induce vomiting without medical advice. If vomiting occurs, the head should be kept forward and low so vomit does not enter the lungs. Never give anything to an unconscious person. Move the exposed person to fresh air. If unconscious, place in the recovery position and get medical advice immediately. Loosen tight clothing such as collar, tie, belt and waistband. Get medical advice / attention if you feel unwell
- Inhalation
Ventilate the area. Remove person from the contaminated place to rest in fresh air and keep comfortable and breathing. Loosen tight clothing such as collar, tie, belt or waistband. Get medical advice / attention if adverse health effects persist or are severe
- Self-protection for first aiders
No action to be taken involving any personal risk or without suitable training. If it is suspected that the mixture is still present, wear appropriate Personal Protection Equipment, see Section 8.2. Wear gloves to remove contaminated clothing, see Section 13 for washing or disposal

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- General
Suspected of causing genetic defects
- Skin contact
May cause an allergic skin reaction. Irritation to the skin
- Eye contact
Irritation to the eyes
- Ingestion
NDA
- Inhalation
NDA
- Delayed / immediate effects
NDA

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Immediate / special treatment
No specific treatment. Treat symptomatically
If respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Do not give mouth-to-mouth resuscitation
If ingested or inhaled in large amounts, immediately seek medical advice
Those assisting the exposed persons to take no action involving personal risk or without training. Performing mouth-to-mouth can be dangerous, only to be done by trained personnel
Eye bathing equipment and First Aid Box should be available
Take this SDS with you when seeking medical advice

SECTION 5. Fire-Fighting Measures

5.1 Extinguishing Media

Alcohol-resistant foam, dry chemical, carbon dioxide and water spray. Select as required by the surrounding materials, etc
Unsuitable extinguishing materials: heavy water stream, jet

5.2 Special Hazards Arising from the Material

In fire or if heated, a pressure increase will occur and the container may burst
Decomposition products may include carbon oxides (CO₂, CO), halogenated compounds, nitrogen oxides

5.3 Advice for Firefighters

Isolate the affected area

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All persons to be immediately removed from the vicinity of the fire. Fire to be dealt with by trained personnel and without involving personal risk

The method of extinguishing the fire and the extinguishing agent used to be appropriate to the local circumstances and environment

Use water spray or fog for cooling containers exposed to the fire. Exercise caution when fighting any chemical fire

Collect the fire fighting water separately. Prevent from entering the environment, waterways, sewers and drains, alert the Environmental Agency if this occurs

Do not enter the area without wearing proper protective equipment, including breathing apparatus

SECTION 6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Non-emergency personnel
Do not attempt to take action without wearing suitable personal protection, refer to SECTION 8.2 of the SDS
Do not touch or walk through the spilled material. Avoid inhalation of vapour or mist - ensure adequate ventilation. Wear respiratory protection if ventilation is inadequate EU EN 143
- Emergency personnel
Evacuate unnecessary personnel and those not wearing the suitable protection. If outside do not approach from downwind. If outside keep bystanders and passing persons upwind and away from the danger point. Mark out the contaminated area with signage and prevent access by unauthorised persons
Ensure adequate ventilation, including forced ventilation if in an internal space and necessary, vent externally to be safely away from other persons and the general public
Turn leaking containers leak-side up to prevent the escape of material, and place in a sealable leak proof labelled container
Avoid inhalation of vapours, wear respiratory protection as SECTION 8.2

6.2 Environmental Precautions

Prevent the product from entering drains, sewers or watercourses (refer to SECTION 11). Contain the spillage using bunding
Alert the Environment Agency in the event of spillage, etc entering water ways, sewers or drains

6.3 Methods and Materials for Containment and Cleaning Up

Clean-up should ONLY be dealt with by a qualified person familiar with the specific product
Stop the leak if it is safe to do so
Large spillages should be contained by bunding and carefully transferred into sealable impervious containers. Remnants from large spillages and small spillages should be absorbed and transferred into these containers
Appropriate bunding / absorbent materials: sand, sawdust, universal absorbent and diatomaceous earth. If necessary, dilute with water to assist collection ensuring this is retained within the bunding and fully collected up into the waste container(s)
All contaminated bunding, including all suspected of being contaminated, to be collected up and transferred to sealable impervious containers
All containers to be labelled and held for disposal as SECTION 13

6.4 Reference to Other Sections

Refer to SECTIONS 8 (Personal Protection / Exposure Controls), 12 (Ecological Information) and 13 (Disposal Consideration) of the SDS

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SECTION 7. Handling and Storage

7.1 Precautions for Safe Handling

- a. Safe handling
- Avoid direct contact with the material, to skin, eyes, mucous membranes and clothing, wear protective equipment as SECTION 8. Do not wear contact lenses when working with this product. Ensure there is sufficient ventilation of the area. Wear filter mouth & nose mask protection in a confined space EN149:2001 FFP2 if ventilation is inadequate or particulates are present. Avoid the formation or spread of mist in the air. If in a confined or unventilated space wear respiratory protection EU EN 143
- Do not breathe vapours, aerosols or gases
- Do not eat, drink or smoke when handling. Wash hands after using the material and remove contaminated clothing and protective equipment before entering areas where food and drink are consumed
- Do not wear contaminated clothing at home. See SECTION 13 for the washing or disposal of contaminated clothing and boots
- b. Prevention of handling incompatible substances or mixtures
- Do not handle other substances or mixtures at the same time. Keep away from other substances and mixtures
- c. Operations and conditions that could create new risks
- Do not allow opened, part used or the container in use to come into contact with other materials including all surfaces around. Ensure the containers are securely sealed during transport and storage in vehicles
- d. Reduce risk of release to the environment
- Avoid spillage. Ensure the floor at storage, transport and the work location will not allow access to drains or water courses. Lay heavy gauge plastic sheeting or similarly impervious protective covering. Contain and clean up spillage as SECTION 6.3 of the SDS

7.2 Conditions for Safe Storage, Including Any Incompatibilities

- a. Storage conditions
- Store in a well ventilated locked area, between +5°C and 35°C and away from direct sunlight. Only store in original containers. Keep container tightly closed. The floor of the storage area to be impermeable to prevent the escape of spillage
- b. Control of the effects of weather, ambient pressure, temperature, sunlight, humidity and vibration
- Protect from freezing, frost, heat and direct sunlight. Keep away from sources of ignition, open flames or excessive heat
- Ensure containers are securely closed against vibration spillage during transport when loading / unloading vehicles, during transport and moving from vehicle to the work location. Unopened containers to be protected against damage during the same movements
- c. Storage with other substances and mixtures
- Store in the original packaging. Store against falling / touching other materials and in an allocated location
- Store away from peroxides, strong oxidising agents and sodium hydroxide
- d. Storage room design, quantity limits, ventilation and packaging compatibilities
- Storage room to be dry, ventilated, and constructed to have impermeable floors and walls to prevent the escape of spillages into the environment
- e. Other considerations
- Use of the stock must be by manufacturing date or expiry date rotation. Containers past their expiry date must be removed for disposal according to SECTION 13 of the SDS. No other data available

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7.3 Specific End Use(es)

Part A of a 3-part repair mortar. With ≤40% water added, a waterproofing membrane / vapour barrier. Refer to the technical Data Sheet for further information

SECTION 8. Personal Protection/Exposure Control

8.1 Control Parameters

Workplace Exposure Limits (WEL)

Taken from the HSE EH40/2005 (3rd Edition, 2018):
 - no limit stated = not on EH40
 - if no 15 min STEL, 3x TWA used

Comments Key

Carc: Capable of causing cancer and / or heritable genetic damage
 Sen: Capable of causing occupational asthma
 Sk: Can be absorbed through the skin, assigned here to substances for which there are concerns that dermal absorption will lead to systematic toxicity

Substance	Long-term exposure limit (8hr TWA reference period)		Short-term exposure limit (15 minute reference period)		Comments
	ppm	mg / m ³	ppm	mg / m ³	
The three substances in the Section 3.2 Hazardous Substances table are not listed on the HSE EH40 Table for substance with Workplace Exposure Limits					
Part A includes breathable quartz (respirable silica dust) that is subsumed into the liquid formulation during the production process, the HSE EH40 Table stating the following WEL Values:					
Respirable silica dust	-	0.1	-	0.3	-
<p>WEL - Installer of 110 WATstop Part A is a liquid form with its ingredient substances consumed into the formulation so the WEL inhalable & respirable dust hazards for the breathable quartz constituent do not apply providing the application instructions are followed</p> <p>WEL - Subsequent works to the surface The WEL hazards DO APPLY for any works to or on the surfaces to which 110 WATstop has been applied that create 110 WATstop dust with non-exclusive examples being: - Grinding, abrading, cutting, etc. of / into the coated surface - Works on the coated surface that may release these inhalable / respirable dust hazards from the 110 WATstop coating</p>					

Derived No Effect Level (DNEL)				
Route of Exposure	Acute Effects Local	Acute Effects Systemic	Chronic Effects Local	Chronic Effects Systemic
Substance: CAS 26761-45-5 2,3-epoxycypropyl neodecanoate: WORKERS				
Inhalation	No hazard identified	10.4 mg/m ³	No hazard identified	2.7 mg/m ³
Dermal	High hazard	High hazard	High hazard	1.9 mg/kg bw/day
Eyes	Low hazard	-	Low hazard	-

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Predicted No Effect Level (PNEC)		
Substance	Environmental Protection Target	Value
2,3-epoxypropyl neodecanoate CAS No. 26761-45-5	Fresh water	1.2 µg/L
	Intermittent releases (fresh water)	12 µg/L
	Freshwater sediments	12.4 µg/L
	Marine water	120 mg/L
	Marine water sediments	1.5 µg/L
	Sewage treatment plant	50 mg/L
	Soil	NDA

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls

- a. Ventilation
Ensure there is sufficient ventilation in the area, including forced ventilation if necessary or in an internal or enclosed space, with safe exhaust away from other persons. The floor must be impermeable to prevent the escape of liquids, laying impermeable protective covering if in doubt
- b. Isolation
Isolate the work area with warning signage against unauthorised access. Ensure all other persons are pre-notified of the works and remain clear of the work area
- c. Washing
Provide eye wash facilities and safety shower
- d. Against contamination
Refer to Section 15.1 'Other Regulations' and the REACH Annex XVII statement there:
Only mix the 3 Parts of the WATstop on impervious protective sheeting against splashes onto both the person(s) performing this task and onto the surrounding area:
 - When opening each Part and when progressively dispensing them together
 - When using the power mixer / paddle off drill, include erecting a barrier around if necessary to stop splashes off the protective sheeting or onto other structures, etc
 - The person(s) performing this to wear disposable overshoes over their safety work boots when working off the protective sheeting
 - When the mixing is done, dispose of the contaminated protective sheeting, the overshoes, etc as controlled waste
- e. Mists
Prevent the formation of vapour or aerosol
- f. Hygiene & Occupational care
Do not eat, drink or smoke during stirring or use of the product. Wash hands with soap and water before eating, drinking or smoking and when leaving the work site for natural breaks, break times and at end of day

8.2.2 Personal Protective Equipment

- a. Work clothing
Impervious disposable 1-piece covering to body, legs and arms with closure at wrists and ankles, and over protective work wear
- b. Eye / face protection
Tight fitting safety goggles, safety glasses with side protection or face visor EN166. Ensure eye bath facilities and individual eye wash ampoules are available

If at risk of splashing to face when mixing the 3-part product wear a full face visor
- c. Skin protection
 - (i) Hand Protection
To be impermeable and resistant to the product / substance / mixture. Due to missing tests no recommendation to the glove material can be given Selection of the glove material to be on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves
The selected protective gloves have to satisfy the specifications of EU

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Directive 89/686/EEC, this being repealed by EU 2016/425 on 21/04/2018, and the resultant standard EN 374

The selection of the suitable gloves does not only depend upon the material, but also further marks of quality and varies from manufacturer to manufacturer

Break through, and other characteristics, depending upon material density and the glove type, and must be determined in each case

Gloves to be tightly fitting at the wrists and extend onto the disposable 1-piece covering. Gloves must be inspected prior to each time used and must be replaced when damaged or worn out

Impervious gloves, chemical resistant: PVC, nitrile rubber, natural rubber, neoprene gloves nitrile rubber, butyl rubber or butyl rubber gloves to the elbow; conforming to EN 374

<p>Penetration time of gloves</p> <p>(ii) Other</p> <p>d. Respiratory protection</p> <p>e.</p> <p>f. Thermal hazards</p> <p>g. Environmental exposure measures</p> <p>h. Hygiene measures</p>	<p>Breakthrough time of the glove material > 4 hours</p> <p>Chemical resistant safety boots with external feed for the laces, not holes for the laces</p> <p>Safety helmet if required, or other head covering, against splashes</p> <p>Good hygiene measures should be followed at all time</p> <p>Mouth & nose filter face mask to EN149:2001 FFP2 vapour & particulate filter. Dust protection is required when mixing the 3 Parts due to the cementitious Part C, and also when spraying. In the case of inadequate ventilation wear respiratory protection EU EN 143 filter cartridge</p> <p>Mist formation; wear aerosol mask EN 143</p> <p>NDA</p> <p>Avoid release to the environment</p> <p>Wash thoroughly after handling. Do NOT eat, drink or smoke while using this product. Remove contaminated clothing, see SECTION 13 for the washing or disposal of contaminated clothing</p>
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SECTION 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

<ul style="list-style-type: none"> • Appearance • Odour • Odour threshold • pH • Melting point/range °C • Freezing point/range °C • Initial boiling point/range °C • Flash point/self-ignition °C • Evaporation rate • Flammability (solid, gas) • Flammability limits, lower % • Flammability limits, upper % • Auto flammability °C • Decomposition temperature 	<table border="0"> <tr> <td style="padding-right: 10px;">(i) Form</td> <td>Liquid</td> </tr> <tr> <td style="padding-right: 10px;">(ii) Colour</td> <td>Black</td> </tr> <tr> <td></td> <td>Characteristic odour</td> </tr> <tr> <td></td> <td>NDA</td> </tr> <tr> <td></td> <td>NDA</td> </tr> <tr> <td></td> <td>NDA</td> </tr> <tr> <td></td> <td>NDA</td> </tr> <tr> <td></td> <td>>200°C</td> </tr> <tr> <td></td> <td>approx 110°C</td> </tr> <tr> <td></td> <td>NDA</td> </tr> <tr> <td></td> <td>NDA</td> </tr> <tr> <td></td> <td>NDA</td> </tr> <tr> <td></td> <td>NDA</td> </tr> <tr> <td></td> <td>NDA</td> </tr> <tr> <td></td> <td>NDA</td> </tr> </table>	(i) Form	Liquid	(ii) Colour	Black		Characteristic odour		NDA		NDA		NDA		NDA		>200°C		approx 110°C		NDA		NDA		NDA		NDA		NDA		NDA
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• Explosive properties	NDA
• Explosive limits	NDA
• Oxidising properties	NDA
• Vapour pressure	NDA
• Relative vapour density at 20°C	NDA
• Relative density	1.53
• Specific weight	1.53 kg/L
• Solubility in water	miscible in water
• Partition coefficient n-octanol/water	NDA
• Also soluble in	NDA
• Viscosity, kinematic	NDA
• Viscosity, dynamic	NDA
• VOC g/l	NDA

NOTE: The above values related to physiochemical properties are typical values for this product and should not, therefore, be construed as a specification

9.2 Other Information NDA

SECTION 10. Stability and Reactivity

10.1 Reactivity	Stable under recommended transport or storage conditions Reacts with strong oxidising agents Polymerizes, with exothermic reaction, in the presence of amines, mercaptans and Lewis acids at or above room temperature. Polymerizes in the presence of caustic soda (sodium hydroxide) Reacts exothermically with bases (e.g. caustic soda), ammonia, primary & secondary amines, alcohols, water and acids
10.2 Chemical Stability	Stable at room temperature, under recommended transport or storage conditions and when protected against the materials or conditions listed in SECTIONS 10.1 and 10.3
10.3 Possibility of Hazardous Reactions	Stable at room temperature and under the recommended conditions of use and storage Reacts with strong oxidising agents. Polymerizes, with exothermic reaction, in the presence of amines, mercaptans and Lewis acids at or above room temperature. Polymerizes in the presence of caustic soda Can release nitrogen oxides and carbon monoxide during combustion
10.4 Conditions to Avoid	Sources of ignition, open flames, excessive heat and direct sunlight Do not store with incompatible materials such as caustics Store in tightly closed original containers in ventilated places, well protected from the sun, water and freezing conditions, at temperatures between +5°C and +35°C
10.5 Incompatible Materials to Avoid	Strong oxidising agents, bases, ammonia, amines and sodium hydroxide
10.6 Hazardous Decomposition Products	During combustion: carbon dioxide, carbon monoxide, halogenated compounds, nitrogen oxides Otherwise does not generate decomposition products under normal / recommended storage and use conditions

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SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects

- Acute toxicity In the absence of experimental toxicological data on the product itself, the potential risks to health were evaluated based on the properties of the constituent substances, according to the criteria laid down by the relevant regulations for Classification.

Hazardous ingredients - 110 WATstop NDA
 - substances See tables below

Route	Test	Species	Value	Result
Substance 1: CAS 25068-38-6 Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)				
Oral	LD50	Rat	2,000 mg/kg	Practically non-toxic
Dermal	LD50		No data available	
Inhalation	LD50		No data available	
Substance 2: CAS 26761-45-9 2,3 epoxypropyl neodecanoate				
Oral	LD50	Rat	9.7 mg/kg	Not acutely toxic
Dermal	LD50	Rat	> 3.9 mg/kg	
Inhalation	LD50		No data available	
Substance 3: CAS 9016-45-9 Nonylphenyl ether of polyethylene glycol				
Oral	LD50	Rat	1.31 mg/kg	
Dermal	LD50	Rabbit	2.0 mg/kg	
Inhalation	LD50		No data available	

Relevant hazards for product

Hazard	Negative Symptoms
Inhalation	Inhalation of the product mist or aerosol may irritate the mucous linings of the respiratory tract
Ingestion	Suspected of causing genetic defects
Eye contact	Causes serious eye irritation
Skin contact	May cause an allergic reaction. Causes skin irritation

Other hazards

Hazard	Basis
Acute toxicity - oral	Not classified. Based on the available data the classification criteria is not met
Acute toxicity - dermal	Not classified. Based on the available data the classification criteria is not met
Acute toxicity - inhalation	Not classified. Based on the available data the classification criteria is not met
Respiratory hazard	Not classified. Based on the available data the classification criteria is not met
Skin corrosion / irritation	Skin Irrit. 2: Causes skin irritation
Serious eye damage	Eye Irrit. 2: Causes serious eye irritation
Skin sensitisation	Skin Sens. 1: May cause an allergic skin reaction. Contains reaction product: bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700) and 2,3-epoxypropyl neodecanoate
Aspiration hazard	Not classified. Based on the available data the classification criteria is not met

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Germ cell mutagenicity	Muta 2: Suspected of causing genetic defects. 2,3-epoxypropyl neodecanoate causes gene-mutation in the liver, kidney and bone marrow of the mouse by oral route
Carcinogenicity	Not classified. Based on the available data the classification criteria is not met
Reproductive toxicity	Not classified. Insufficient data available
STOT single exposure	Not classified. Based on the available data the classification criteria is not met
STOT repeated exposure	Not classified. Based on the available data the classification criteria is not met

Other information The product was not tested. The data reported here are based on the information contained in the safety data sheets of the raw materials that make up the product

SECTION 12. Ecological Information

12.1 Toxicity

Toxic to aquatic life with long lasting effects

Hazardous ingredients	Specie	Test	Duration	Value
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	Fish	LC50	96 hr	1.3 mg/L
	Aquatic invertebrates	EC50	48 hr	2.1 mg/L
	Algae / aquatic plants	LC50	48 hr	9 mg/L
2,3 epoxypropyl neodecanoate	Oncorhynchus mykiss (rainbow trout)	LC50	96 hr	9.6 mg/L
	Fish	LC50	96hr	5 mg/L
	Aquatic invertebrates	EC50	48 hr	4.8 mg/l
	Algae / aquatic plants	EC50	96 hr	3.5 mg/L
	Micro-organisms	NOEC	3hr	500 mg/L

12.2 Persistence and Biodegradability Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700): NDA

2,3-epoxypropyl neodecanoate: Does not biodegrade

12.3 Bioaccumulative Potential

Low potential for bioaccumulation

Substance	Partition coefficient: n-octanol/water (log Kow)
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	2.64-3.78
2,3 epoxypropyl neodecanoate	2.6 - 4.4

12.4 Mobility in Soil

Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700): NDA

2,3-epoxypropyl neodecanoate: Has a low potential to absorb in sediment and soil

12.5 Results of PBT & vPvT Assessment This mixture is not PBT or vPvB

12.6 Other Adverse Effects

NDA

Avoid release to the environment

12.7 Additional information

NDA

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SECTION 13. Disposal Considerations

13.1 Contaminated work wear, tools, etc

Refer to SECTION 15.1 'Other Regulations', and the REACH Annex XVII statement there

It is recommended that all collected cured WATstop, Part A & B inner containers, paddle washings, and tools, sheeting, clothing, etc for controlled disposal, are placed in WATstop containers that are contaminated from the mixing. These containers to be tightly sealed and labelled with their contents

For WATstop fully cured timings, see Data Sheet, ranges from 2 days at 25°C to 7 days at 5°C

- Work wear
 - a) Dispose of contaminated 1-piece impervious protective overall as controlled waste
 - b) Anything contaminated with Part A to be disposed of as controlled waste
 - c) Heavy WATstop contamination on work wear under the disposable overall:
 - Do not wash
 - Allow the WATstop to cure as above
 - Dispose as contaminated waste
 - d) Light WATstop contamination on work wear under the disposable overall:
 - Allow the WATstop to fully cure as above
 - Scrape off the contamination and dispose as controlled waste
 - Then wash
- Part A, WATstop containers, tools, equipment and protective sheeting
 - a) Anything contaminated with Part A to be disposed of as controlled waste
 - b) Brushes, rollers, paint trays, brooms, protective sheeting and all other contaminated items:
 - Allow the WATstop to fully cure as above and dispose as controlled waste.
 - c) Trowels, scrapers, fillet knives, etc:
 - Allow the WATstop to fully cure as above
 - Scrape off if possible and bag the scrapings for disposal as controlled waste
 - If the WATstop cannot be removed, dispose the tool(s) as controlled waste
 - d) Mixing paddles and mixing containers:
 - Stand the paddle in water in a tub, scrubbing it clean between mixes.
 - After the final paddle clean, pour the washing / water into a WATstop tub, tightly seal the tub and label it with the contents as controlled waste
 - Close all contaminated original WATstop containers and dispose of as controlled waste, labelling them with the content

13.2 Waste Treatment Methods

- Disposal operations
 - Mixed product, Part A and the container to be treated as SECTION 6: 'Accidental Release Measures'. Recovery is not applicable and they must be disposed as controlled waste under local, national or EC Regulations

All containers, original and spillage, etc collection, to be labelled, tightly sealed and held for controlled waste disposal

The product and Parts A, B and C must not be disposed of in sewers, drains,

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- Recovery operations: N/A. Dispose as the above 'Disposal operations'
- Waste code number: The material 110 WATstop & Part A: 17 09 03*
Packaging containers: 15 01 10*
- Disposal of packaging: Contaminated containers: Dispose as controlled waste
NOTE: Containers must be considered as not being able to be cleaned
- Special precautions for the disposal method: Ensure substances or mixtures are not mixed with other materials and not held in the same outer container with other materials
- NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

SECTION 14. Transport Information

- 14.1 UN Number: 3082
- 14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
[contains epichlorohydrin epoxy resin (number average molecular weight ≤ 700) and 2,3-epoxypropyl neodecanoate]
- 14.3 Transportation Hazard Class(es): Class 9
- 14.4 Packing Group: III
- 14.5 Environmental Hazards: ADR/ADN/RID/IATA: Yes
IMDG Code: Is a marine pollutant
- 4.6 Special Precautions for User:
 - Transport Category: 3
 - Tunnel Restriction Code: (-)
 - Limited quantities: 5 litres
- 14.7 Transport in Bulk According to:
 - (i) Annex II of Marpol: N/A
 - (ii) the IBC Code: N/A

SECTION 15. Regulatory Information

- 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance, Mixture or Article: COMMISSION REGULATIONS (EC) No 1272/2008 and (EU) No 2015/830 of 28/05/2015 amending Regulation (EC) No 1907/2006 and repealing (EU) 453/2010 20 May 2010 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- Other regulations, limitations and prohibitive regulations

Regulation(s)	Substance	Additional information
Seveso III Directive (Directive 2012/18/EU) repealing Directive 96/82/EC	epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	Servesco Substance: YES
		Servesco Category: E2

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Substances included in the Community Rolling Action Plan (CoRAP)	epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	
	Poly(oxy-1,2Ethanediyl), (a)-(nonylphenyl)	

Authorisations and / or restrictions on use	
epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	Not listed on Annex XVII, Annex XIV or the Candidate List of SVHC substances to REACH
2,3 epoxypropyl neodecanoate	
Poly(oxy-1,2Ethanediyl), (a)-(nonylphenyl)	Some uses of this substance are restricted under Annex XVII of REACH: see Entry 46a - this effecting the washing of fabrics

15.2 Chemical Safety Assessment A chemical safety assessment has not been carried out. Data from the component substances is included in this MSDS

SECTION 16. Other Information

16.1 Changes Compared to the Previous Version

Date	Sections	Item	Change	Comment (none = read all)
16/10/18		Change table	Added	
	All	Full re-write		Read the entire document

16.2 Key literature and sources of data Regulation (EC) 1907/2006
Regulation (EC) No. 1272/2008
Regulation (EU) No. 2015/830
Supplier SDS
ECHA, including REACH dossier for component substances
EH40/2005 3rd Edition, 2018

16.3 Abbreviations & Acronyms

bw.: body weight
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR / RID: Agreement on road transport of dangerous goods / regulations of the international transport of dangerous goods by rail
CAS: Chemical Abstracts Service (division of the American Chemical Society)
CLP: EU Regulation 1272/2008: Classification, Labelling & packaging of chemical substances
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Level (REACH)
EC50: (Half maximal effective concentration) The concentration of a substance which induces a response halfway between the baseline and maximum after a specified exposure time
EINECS: European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substance number
HSE: (UK) Health & Safety Executive
IATA: International Air Transport Association
IBC Code: International Building Code
IMDG: International Maritime Dangerous Goods
LC50: Lethal concentration, 50% affected
LD50: Lethal dose, 50% affected
MARPOL: International Convention for the Prevention of Pollution from Ships
SDS: Safety Data Sheet

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N/A: Not Applicable
 NDA: No Data Available
 NOEC: No observable effect concentration
 PBT: Persistent, Bioaccumulative and Toxic substances
 vPvB: Very Persistent and very Bioaccumulative substances
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals: Regulation (EC) No 1907/2006
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
 STEL: Short Term Exposure Limit
 STOT RE: Specific target organ toxicity (from) repeated exposure
 STOT SE: Specific target organ toxicity (from) single exposure
 TWA: Time Weighted Averages
 VOC: Volatile organic compounds

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP)

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Skin Irrit. 2: H315	Calculation
Eye Irrit. 2: H 319	Calculation
Skin Sens. 1: H317	Calculation
Muta. 2: H314	Calculation
Aquatic Chronic 2: H411	Calculation

16.5 Phrases Used in Sections 2 & 3

- H Statements**
 - H302: Harmful if swallowed
 - H315: Causes skin irritation
 - H317: May cause an allergic skin reaction
 - H318: Causes serious eye damage
 - H319: Causes serious eye irritation
 - H341: Suspected of causing genetic defects
 - H411: Toxic to aquatic life with long lasting effects
- Hazard Class and Category Code**
 - Acute Tox. 4: Acute Toxicity, Hazard Category 4
 - Skin Irrit. 2: Skin Irritation, Hazard Category 2
 - Eye Irrit. 2: Eye Irritation, Hazard Category 2
 - Skin Sens. 1: Skin Sensitisation, Hazard Category 1
 - Muta.2: Mutagenicity, Hazard Category 2
 - Aquatic Chronic 2 H411
 - Hazard Categories: 1 & 2: Fatal, 3: Toxic, 4: Harmful, 5: May be harmful

16.6 Training advice

Obtain special instructions and read Safety Data Sheet before use. Do not handle until all safety precautions have been read and understood. It is recommended that workers are trained in the safe handling of hazardous chemicals

16.7 DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best on the Company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the users responsibility to satisfy themselves as to the suitability of such information for their own particular use. It shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

System 100

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Rev 3.0 - 16 October 2018

PRODUCT CODE - 110

SECTION 1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Identifier

- Product name Newton 110
- Product codes 110

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture Professional use: Part B of a 3-part product, being a repair mortar and, with ≤40% water, a waterproofing membrane/vapour barrier

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
- Email address of the competent person info@newtonwaterproofing.co.uk
- Emergency telephone numbers Newton Waterproofing systems - English language
+44 (0)1732 360095/08:00-17:30 (GMT) Mon-Thur & 08:00-17:00 (GMT) Fri

SECTION 2. Hazards Identification

- Refer to Section 16 for The explanation of the abbreviations used throughout this MSDS
The full list of Hazard Phrases & Precautionary Statements stated throughout this MSDS

2.1 Classification of the Substance or Mixture

- Classification under CLP

Skin Corr. 1B	H314	Causes severe skin burns and eye damage
Eye Dam. 1	H318	Causes serious eye damage
Skin Sens. 1	H317	May cause an allergic skin reaction
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects
- Additional information EUH208 Contains 3,6,9-triazaundecamethylenediamine.
May produce an allergic reaction
- Most important adverse effects Toxic to aquatic life with long lasting effects. Causes serious eye damage.
Causes skin irritation and may cause an allergic skin reaction.

2.2 Label Elements

- Hazard statements As 2.1 Classification under CLP
- Signal words Danger
- Hazard pictograms



GHS05



GHS07



GHS09

- Precautionary statements

P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

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- P305+P338+ P351 IF IN YES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do
 - P310 Immediately call a POISON CENTRE / doctor
 - P501 Dispose of contents / container in accordance with local / regional / national / international regulations
- Supplementary hazard information (EU)
 - EUH208 Contains 3,6,9-triazaundecamethylenediamine. May produce an allergic reaction
- Hazard determining component(s)

Contains:

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine

3-aminopropyldimethylamine

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine
- Other information

To be handled and used in accordance with good occupational hygiene and safety practice. Wear PPE as Section 8.2, handle and store as Section 7, manage accidental release as Section 6 and follow the instructions in the Data Sheet

2.3 Other Hazards

- PBT / vPvB Contains no substances that meet the REACH criteria for PBT / vPvB
- Other Hazards NDA

SECTION 3. Composition/information on ingredients

3.2 Mixture This product is a mixture

Hazardous Substances

Chemical name	CAS	EINECS	REACH Registration Number	% w/w	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1	500-191-5	-	15 - 25	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Amines, from tall-oil fatty acids and tetraethylenepentamine	68155-17-9	268-945-3	-	5 - 15	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine	68071-65-8	500-187-3	-	5 - 15	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319
3-aminopropyldimethylamine	109-55-7	203-680-9	01-2119486842-27	0.5 - 2.5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317

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3,6,9-triazaundecamethylenediamine	112-57-2	203-986-2	01-2119487290-37	≤0.5	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Trentine	112-24-3	203-950-6	01-2119487919-13	≤5	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Additional information	Contains quartz (SiO ₂) fully subsumed into the formulation during production so is in a non-threatening form and therefore not inhalable
Impurities	Does not contain impurities relevant for Classification and Labelling
NB	Please also refer to SECTION 8 Personal Protection / Exposure Controls and SECTION 16 for the full text of the Hazard and EU Hazard Statements

SECTION 4. First Aid Measures

4.1 Description of First Aid Measures

- **General** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice, taking this SDS to show the doctor
- **Skin contact** Remove contaminated clothing. Gently remove all traces of product and wash thoroughly with plenty of water for at least 10 minutes. Obtain medical advice immediately. See SECTION 13 for washing or disposal of contaminated clothing and boots
- **Eye contact** Do not rub. Rinse cautiously with water for several minutes holding the eyelids open. Remove contact lenses if present and easy to do so, then continue rinsing for at least 15 minutes. Obtain medical advice immediately
- **Ingestion** Do NOT induce vomiting. Wash out mouth with water. Drink 1 to 2 glasses of water. Never give anything to an unconscious person. Move the exposed person to fresh air. If unconscious, place in the recovery position and get medical advice immediately. Loosen tight clothing such as collar, tie, belt and waistband. Get medical attention immediately
- **Inhalation** Ventilate the area. Remove person from the contaminated place to rest in fresh air and keep comfortable and breathing. Loosen tight clothing such as collar, tie, belt or waistband. Get medical advice / attention if you feel unwell

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- **Skin contact** May cause an allergic reaction. Corrosive to the skin - causes skin burns
- **Eye contact** Causes serious eye damage
- **Ingestion** Irritating to mouth, throat and stomach
- **Inhalation** Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- **Immediate / special treatment** No specific treatment. Treat symptomatically
If respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Do not give mouth-to-mouth resuscitation
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours
If ingested or inhaled in large amounts, immediately contact a Poison Control Centre
Those assisting the exposed persons to take no action involving personal

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risk or without training. Performing mouth-to-mouth can be dangerous, only to be done by trained personnel

Eye bathing equipment and First Aid Box should be available

Take this SDS with you when seeking medial advice

SECTION 5. Fire-Fighting Measures

5.1 Extinguishing Media

Select as required by the surrounding fire, materials, etc

Unsuitable extinguishing materials: do NOT use heavy water stream or jet

5.2 Special Hazards Arising from the Material

Do not inhale combustion gases

In fire or if heated, a pressure increase will occur and the container may burst. Keep containers cool by spraying with water

Decomposition products may include carbon oxides (CO₂, CO), nitrogen oxides

5.3 Advice for Firefighters

All persons to be immediately removed from the vicinity of the fire. Fire to be dealt with by trained personnel and without involving personal risk

Isolate the affected area

The method of extinguishing the fire and the extinguishing agent used to be appropriate to the local circumstances and environment

Use water spray or fog for cooling containers exposed to the fire. Exercise caution when fighting any chemical fire

Prevent fire fighting water from entering the environment, waterways, sewers and drains, alert the Environmental Agency if this occurs

Do not enter the area without self contained breathing apparatus for fire-fighting, protective gloves and protective clothing (EN 469)

SECTION 6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Non-emergency personnel
 - Do not touch or walk through spilled material
 - Avoid inhalation of vapour or mist - ensure adequate ventilation. Wear respiratory protection if ventilation is inadequate
 - Avoid contact with skin, eyes and clothing. Wear personal protection equipment, see SECTION 8
- Emergency responders
 - Do not attempt to take action without wearing suitable personal protection, refer to SECTION 8.2 of the MSDS
 - Evacuate unnecessary personnel and those not wearing the suitable protection. If outside do not approach from downwind. If outside keep bystanders and passing persons upwind and away from the danger point. Mark out the contaminated area with signage and prevent access by unauthorised persons
 - Ensure adequate ventilation, including forced ventilation if in an internal space and necessary, vent externally to be safely away from other persons and the general public
 - Wear respiratory protection if ventilation is inadequate. Avoid inhalation of vapours or mist
 - Turn leaking containers leak-side up to prevent the escape of material, and place in a leak proof labelled container
 - Avoid inhalation of vapours, wear respiratory protection as SECTION 8.2

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6.2 Environmental Precautions

Avoid release to the environment. Prevent the product from entering drains, sewers or watercourses (refer to SECTION 11). Contain the spillage using non-combustible bunding material

Alert the Environment Agency in the event of spillage, etc entering water ways, sewage or drains

6.3 Methods and Materials for Containment and Cleaning Up

Clean-up should ONLY be dealt with by a qualified person familiar with the specific product

Stop leak if safe to do so

Large spillages should be contained by bunding using non-combustible absorbent material and carefully transferred into sealable impervious containers. Remnants from large spillages and small spillages should be similarly absorbed and transferred into sealable impervious containers

Appropriate bunding / absorbent materials: sand, sawdust, universal absorbent and diatomaceous earth. If necessary, dilute with water to assist collection ensuring this is retained within the bunding and fully collected up into the waste container(s)

All contaminated bunding, including all suspected of being contaminated, to be collected up and transferred to sealable impervious containers

Label all containers with the content and held for disposal as Section 13

6.4 Reference to Other Sections

Refer to SECTIONS 8 (Personal Protection / Exposure Controls), 12 (Ecological Information) and 13 (Disposal Consideration) of the SDS

SECTION 7. Handling and Storage

7.1 Precautions for Safe Handling

a. Safe handling

No special precautions needed

Avoid direct contact with the material, to skin, eyes and mucous membranes, wearing protective equipment as SECTION 8. Do not wear contact lenses when working with this product. Ensure there is sufficient ventilation of the area. Wear respiratory protection if ventilation is inadequate or in a confined space

Avoid the formation or spread of mist in the air

Do not breathe vapours, aerosols or gases

Apply normal measure for preventive fire protection

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses

Do not eat, drink or smoke when handling. Wash hands after using the material and remove contaminated clothing and protective equipment before entering areas where food and drink are consumed

Do not wear contaminated clothing at home, see SECTION 13 for the disposal or washing of contaminated clothing and boots

b. Prevention of handling incompatible substances or mixtures

Do not handle other substances or mixtures at the same time. Keep away from other substances and mixtures

c. Operations and conditions that could create new risks

Do not allow opened, part used or the container in use to come into contact with other materials including all surfaces around. Ensure the containers are securely sealed during transport and storage in vehicles

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d. Reduce risk of release to the environment

Ensure the floor at storage, transport and the work location will not allow access to drains or water courses. Lay heavy gauge plastic sheeting or similarly impervious protective covering. Contain and clean up spillage as SECTION 6.3 of the SDS

7.2 Conditions for Safe Storage, Including Any Incompatibilities

a. Storage conditions

Store in a well ventilated area between +5°C and 35°C. Only store in original containers. Keep container tightly closed. Store locked up. The floor of the storage area to be impermeable to prevent the escape of spillage

b. Control of the effects of weather, ambient pressure, temperature, sunlight, humidity and vibration

Protect from freezing, frost, heat and direct sunlight. Keep away from sources of ignition, open flames or excessive heat

Ensure containers are securely closed against vibration spillage during transport when loading / unloading vehicles, during transport and moving from vehicle to the work location. Unopened containers to be protected against damage during the same movements

c. Storage with other substances and mixtures

Store in the original packaging. Store against falling / touching other materials and in an allocated location

Store away from incompatible materials: alkali metals, alkali earth metals, peroxides, strong oxidising agents, strong acids, strong bases, strong reducing agents and sodium hydroxide

d. Storage room design, quantity limits, ventilation and packaging compatibilities

Storage room to be dry, ventilated, and constructed to have impermeable floors and walls to prevent the escape of spillages into the environment

e. Other considerations

Use of the stock must be by manufacturing date or expiry date rotation. Containers past their expiry date must be removed for disposal according to SECTION 13 of the MSDS. No other data available

7.3 Specific End Use(es)

Part B of a 3-part repair mortar. With ≤40% water added, a waterproofing membrane / vapour barrier. Refer to the technical Data Sheet for further information

SECTION 8. Personal Protection/Exposure Control

8.1 Control Parameters

Workplace Exposure Limits (WEL)

Taken from the HSE EH40/2005(3rd Edition, 2018):

- None listed on the EH40 Table

Derived No Effect Level (DNEL)				
Route of Exposure	Acute Effects Local	Acute Effects Systemic	Chronic Effects Local	Chronic Effects Systemic
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine, WORKERS				
Inhalation	Hazard unknown	No hazard identified	Hazard unknown	3.9 mg/m ³
Dermal	High hazard	No hazard identified	High hazard	1.1 mg/kg bw/day
Eyes	Medium hazard			
3-aminopropyldimethylamine, WORKERS				
Inhalation	Low hazard	Low hazard	1.2 mg/m ³	1.2 mg/m ³
Dermal	Medium hazard	Medium hazard	Medium hazard	Medium hazard
Eyes	Medium hazard			

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Predicted No Effect Concentration (PNEC)		
Environmental Protection Target	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	3-aminopropyldimethylamine
Fresh water	4.34 µg/L	72.8 µg/L
Intermittent releases (freshwater)	43.4 µg/L	340 µg/L
Freshwater sediments	434.02 mg/kg sediment dw	735 µg/kg sediment dw
Marine water	434 mg/L	7.28 µg/L
Marine water sediments	43.4 mg/kg sediment dw	73.5 µg/kg sediment dw
Sewage treatment plant	3.84 mg/L	69.5 mg/L
Soil	86.78 mg/kg soil dw	104 µg/kg soil dw

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls

- a. Ventilation

Ensure there is sufficient ventilation in the area, including forced ventilation if necessary or in an internal or enclosed space, with safe exhaust away from other persons. The floor must be impermeable to prevent the escape of liquids, laying impermeable protective covering if in doubt
- b. Isolation

Isolate the work area with warning signage against unauthorised access. Ensure all other persons are pre-notified of the works and remain clear of the work area
- c. Against contamination

Refer to SECTION 15.1 'Other Regulations' and the REACH Annex XVII statement there:
Only mix the 3 Parts of the WATstop on impervious protective sheeting against splashes onto both the person(s) performing this task and onto the surrounding area:

 - When opening each Part and when progressively dispensing them together
 - When using the power mixer / paddle off drill, include erecting a barrier around if necessary to stop splashes off the protective sheeting or onto other structures, etc
 - The person(s) performing this to wear disposable overshoes over their safety work boots when working off the protective sheeting
 - When the mixing is done, dispose of the contaminated protective sheeting, the overshoes, etc as controlled waste
- d. Mists

Prevent the formation of vapour or aerosol
- e. Hygiene & Occupational care

Do not eat, drink or smoke during stirring or use of the product. Wash hands with soap and water before eating, drinking or smoking and when leaving the work site for natural breaks, break times and leaving at end of the working day

8.2.2 Personal Protective Equipment

- a. Work clothing

Impervious disposable 1-piece covering to body, legs and arms with closure at wrists and ankles, and over protective work wear
- b. Eye / face protection

Tight fitting safety goggles, safety glasses with side protection or face visor EN166. Ensure eye bath facilities and individual eye wash ampoules are available

If at risk of splashing to face when mixing the 3-part product wear a full face visor
- c. Skin protection
 - (i) Hand Protection

To be impermeable and resistant to the product / substance / mixture. Due to missing tests no recommendation to the glove material can be given Selection of the glove material to be on consideration of the penetration times, rates of diffusion and the degradation

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Material of gloves	<p>The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC, this being repealed by EU 2016/425 on 21/04/2018, and the resultant standard EN 374</p> <p>The selection of the suitable gloves does not only depend upon the material, but also further marks of quality and varies from manufacturer to manufacturer</p> <p>Break through, and other characteristics, depending upon material density and the glove type, and must be determined in each case</p> <p>Gloves to be tightly fitting at the wrists and extend onto the disposable 1-piece covering. Cloves must be inspected prior to each time used and must be replaced when damaged or worn out</p> <p>Impervious gloves, chemical resistant: PVC, nitrile rubber, natural rubber, neoprene gloves nitrile rubber, butyl rubber or butyl rubber gloves to the elbow; conforming to EN 374</p>
Penetration time of gloves	Breakthrough time of the glove material > 4 hours
(ii) Other	<p>Chemical resistant safety boots with external feed for the laces, not holes for the laces</p> <p>Safety helmet if required, or other head covering, against splashes</p> <p>Good hygiene measures should be followed at all time</p>
d. Respiratory protection	<p>Mouth & nose filter face mask to EN149:2001 FFP2 vapour & particulate filter. Dust protection is required when mixing the 3 Parts due to the cementitious Part C, and also when spraying. In the case of inadequate ventilation wear respiratory protection EU EN 143 filter cartridge</p> <p>Mist formation; wear aerosol mask EN 143</p>
e. Thermal hazards	NDA
f. Environmental exposure measures	Avoid release to the environment
g. Hygiene measures	Wash thoroughly after handling. Do NOT eat, drink or smoke while using this product. Remove contaminated clothing, see SECTION 13 for the washing or disposal of contaminated clothing

SECTION 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

• Appearance	(i) Form	Liquid
	(ii) Colour	Amber
• Odour		Ammonia
• Odour threshold		NDA
• pH		NDA
• Melting point/range °C		NDA
• Freezing point/range °C		NDA
• Initial boiling point/range °C		>124°C
• Flash point/self-ignition °C		approx 82°C
• Evaporation rate (BuAc = 100)		NDA
• Flammability (solid, gas)		NDA
• Flammability limits, lower %		NDA
• Flammability limits, upper %		NDA
• Auto flammability °C		NDA
• Decomposition temperature		NDA

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• Explosive properties	NDA
• Explosive limits	NDA
• Oxidising properties	NDA
• Vapour pressure	NDA
• Relative vapour density at 20°C	NDA
• Relative density	0.97
• Solubility in water	Emulsifies in water
• Partition coefficient n-octanol/water	NDA
• Also soluble in	NDA
• Viscosity, kinematic	NDA
• Viscosity, dynamic	NDA
• VOC g/l	NDA

NOTE: The above values related to physiochemical properties are typical values for this product and should not, therefore, be construed as a specification

9.2 Other Information NDA

SECTION 10. Stability and Reactivity

10.1 Reactivity	<p>Stable under recommended transport or storage conditions</p> <p>May generate flammable gases on contact with alkali metals, alkaline earth metals and strong reducing agents</p> <p>May generate toxic gases on contact with oxidizing mineral acids, strong oxidising agents</p> <p>May catch fire on contact with powerful oxidising agents</p>
10.2 Chemical Stability	<p>Stable under recommended transport or storage conditions and when protected against the materials or conditions listed in SECTIONS 10.1 and 10.3</p>
10.3 Possibility of Hazardous Reactions	<p>Stable at room temperature and under the recommended conditions of use and storage</p> <p>May generate flammable gases on contact with alkali metals, alkaline earth metals and strong reducing agents</p> <p>May generate toxic gases on contact with oxidizing mineral acids, strong oxidising agents</p> <p>May catch fire on contact with powerful oxidising agents</p>
10.4 Conditions to Avoid	<p>Sources of ignition, open flames, excessive heat and direct sunlight</p> <p>Do not store with incompatible materials such as caustics</p> <p>Store in tightly closed original containers in ventilated places, well protected from the sun, water and freezing conditions, at temperatures between +5°C and +35°C</p>
10.5 Incompatible Materials to Avoid	<p>Keep away from alkali metals, alkaline earth metals, strong oxidising agents, strong acids, strong bases strong reducing agents and sodium hydroxide</p>
10.6 Hazardous Decomposition oxides	<p>During combustion: carbon dioxide, carbon monoxide, nitrogen</p>
Products	<p>No hazardous decomposition products under normal / recommended storage and use conditions</p>

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SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects

- Acute toxicity In the absence of experimental toxicological data on the product itself, the potential risks to health were evaluated based on the properties of the constituent substances, according to the criteria laid down by the relevant regulations for Classification.

Hazardous ingredients - 110 WATstop NDA
 - substances See table below

Route	Test	Specie	Value	Result
Substance 1: CAS 68082-29-1				
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine				
Oral	LD50	Rat	2,000 mg/kg bw	Not classified
Dermal	LD50		2,000 mg/kg bw	Not classified
Inhalation	LD50		NDA	
Substance 2: CAS 109-55-7				
3-aminopropyldimethylamine				
Oral	LD50	Rat	377.1 - 442.7 mg/kg bw	NDA
Dermal	LD50	Rat	400 - 2,000 mg/kg bw	NDA
Inhalation	LD50	Rat	4.31 mg/L air	NDA

Relevant hazards for product

Hazard	Negative Symptoms
Inhalation	Inhalation of the product mist or aerosol may irritate the mucous linings of the respiratory trace
Ingestion	Suspected of causing genetic defects
Eye contact	Causes serious eye damage
Skin contact	May cause an allergic reaction. Causes skin irritation

Other hazards

Hazard	Basis
Acute toxicity - oral	Not classified. Based on the available data the classification criteria is not met
Acute toxicity - dermal	Not classified. Based on the available data the classification criteria is not met
Acute toxicity - inhalation	Not classified. Based on the available data the classification criteria is not met
Respiratory hazard	Not classified. Based on the available data the classification criteria is not met
Skin corrosion / irritation	Skin Corr. 1B: Causes severe skin burns and eye damage
Serious eye damage / irritation	Eye Dam. 1: Causes serious eye damage
Skin sensitisation	Skin Sens. 1: May cause an allergic skin reaction. Contains: Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine 3-aminopropyldimethylamine 3,6,9-triazaundecamethylenediamine
Aspiration hazard	Not classified. Inconclusive
Germ cell mutagenicity	Not classified. Based on the available data the classification criteria is not met

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Carcinogenicity	Not classified. Data lacking
Reproductive toxicity	Not classified. Data lacking
STOT repeated exposure	Not classified. Based on the available data the classification criteria is not met
STOT single exposure	Not classified. Based on the available data the classification criteria is not met

Other information

The product was not tested. The data reported here are based on the information contained in the safety data sheets of the raw materials that make up the product

SECTION 12. Ecological Information

12.1 Ecotoxicity

Acute aquatic toxicity

Hazardous ingredients	Specie	Test	Duration	Value
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Fish	LC50	96 hr	7.07 mg/L
	Aquatic invertebrates	EC50	48 hr	7.07 mg/L
	Aquatic invertebrates	NOEC	22 days	3.64 mg/L
	Algae / aquatic plants	EC50	72 hr	4.34 mg/L
	Micro organisms	EC50	3 hr	384 mg/L
3-aminopropyldimethylamine	Fish	LC50	96 hr	122 mg/L
	Aquatic invertebrates	EC50	48 hr	59.46 mg/L
	Algae / aquatic plants	EC50	72 hr	30 - 34 mg/L
	Micro organisms	EC50	17 hr	94.5 mg/L

12.2 Persistence and Biodegradability

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine: readily biodegradable
3-aminopropyldimethylamine: readily biodegradable

12.3 Bioaccumulative Potential

The mixture is expected to have a low potential for bioaccumulation

12.4 Mobility in Soil

The product is not mobile in soil

12.5 Results of PBT & vPvT Assessment

The product is not PBT or vPvB

12.6 Other Adverse Effects

NDA

Avoid release to the environment

12.7 Additional information

NDA

SECTION 13. Disposal Considerations

13.1 Contaminated work wear, tools, etc

It is recommended that all collected cured WATstop, Part A & B inner containers, paddle washings, and tools, sheeting, clothing, etc for controlled disposal, are placed in WATstop containers that are contaminated from the mixing. These containers to be tightly sealed and labelled with their contents

WATstop fully cured timings, see Data Sheet, ranges from 2 days at 25°C to 7 days at 5°C

Work wear

- a) Dispose of contaminated 1-piece impervious protective overall as controlled waste
- b) Heavy WATstop contamination on work wear under the disposable overall:
 - Do not wash
 - Allow the WATstop to cure as above and dispose as contaminated waste

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- Part B contamination
 - c) Light WATstop contamination on work wear under the disposable overall:
 - Allow the WATstop to fully cure as above
 - Scrape off the contamination and dispose as controlled waste
 - Then wash
 - Tools - washing to be collected for disposal as controlled waste.
 - Clothing, boots, etc: scrape off and wash, collecting the scraping for disposal as controlled waste
- WATstop contamination
 - a) Brushes, rollers, paint trays, brooms, protective sheeting and all other contaminated items:
 - Allow the WATstop to fully cure as above and dispose as controlled waste.
 - b) Trowels, scrapers, fillet knives, etc:
 - Allow the WATstop to fully cure as above
 - Scrape off if possible and bag the scrapings for disposal as controlled waste
 - If the WATstop cannot be removed, dispose the tool(s) as controlled waste
 - c) Mixing paddles and mixing containers:
 - Stand the paddle in water in a tub, scrubbing it clean between mixes.
 - After the final paddle clean, pour the washing / water into a WATstop tub, tightly seal the tub and label it with contents and for controlled waste
 - Close all contaminated original WATstop containers and dispose of as controlled waste, labelling them with the content
 - d) Protective sheeting and any other contaminated materials:
 - Dispose of a controlled waste

13.2 Waste Treatment Methods

- Disposal operations
 - Mixed product, Part B and the container to be treated as SECTION 6: Accidental Release Measures. Recovery is not applicable and they must be disposed as controlled waste under local, national or EC Regulations
 - All containers, original and spillage, etc collection, to be labelled and tightly sealed
 - The product and Parts A, B and C must not be disposed of in sewers, drains, canals, natural waterways or rivers
- Recovery operations
 - N/A. Dispose as the above 'Disposal operations'
- Waste code number
 - The material 110 WATstop & Part B: 17 09 03*
 - Packaging containers: 15 01 10*
- Disposal of packaging
 - Contaminated containers: Dispose as controlled waste
 - NOTE: Containers to be considered as not being able to be cleaned
- Special precautions for the disposal method
 - Ensure substances or mixtures are not mixed with other materials and not held in the same outer container with other materials
- NB
 - The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

SECTION 14. Transport Information

- 14.1 UN Number 3082
- 14.2 UN Proper Shipping Name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains Amides, from tall-oil fatty acids and tetraethylenepentamine, Trientine and 3-aminopropyldimethylamine)

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- 14.3 Transportation Hazard Class(es)** Class 8
- 14.4 Packing Group** II
- 14.5 Environmental Hazards**
- ADR / ADN / RID / IATA Yes
 - IMDG Code Marine pollutant: Yes
- 14.6 Special Precautions for User**
- Transport Category 2
 - Tunnel Restriction Code (E)
 - Limited Quantity limit 1 litre container
- 14.7 Transport in Bulk According to:**
- (i) Annex II of Marpol N/A
 - (ii) the IBC Code N/A

SECTION 15. Regulatory Information

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

COMMISSION REGULATIONS (EC) No 1272/2008 and (EU) No 2015/830 of 28/05/2015 amending Regulation (EC) No 1907/2006 and repealing (EU) 453/2010 20 May 2010 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

- Other regulations, limitations and prohibitive regulations

Regulation(s)	Substance	Additional information
Seveso III Directive (Directive 2012/18/EU) repealing Directive 96/82/EC	3-aminopropyldimethylamine	Servesco Substance: YES
		Servesco Category: P5a, P5b, P5c
	3,6,9-triazaundecamethylenediamine	Seveso Substance: YES
		Seveso Category: E2
	Trientine	Seveso Substance: NO
Substances included in the Community Rolling Action Plan (CoRAP)	3-aminopropyldimethylamine	

Authorisations and / or restrictions on use

Substances in this product are not listed on Annex XVII, Annex XIV or the Candidate List of SVHC substances to REACH

15.2 Chemical Safety Assessment

A chemical safety assessment is not available for this mixture. Data from the component substances is included within this SDS

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SECTION 16. Other Information

16.1 Changes Compared to the Previous Version

Date	Sections	Item	Change	Comment (none = read all)
16/10/18	16.1	Change table	Added	
	All	Full re-write		Read the entire document

16.2 Key literature and sources of data Regulation (EC) 1907/2006
 Regulation (EC) No. 1272/2008
 Regulation (EU) No. 2015/830
 ECHA, including REACH dossier for component substances
 EH40/2005 3rd Edition, 2018

16.3 Abbreviations & Acronyms

bw.: body weight
 dw.: dry weight
 Acute Tox. 4: Acute Toxicity, Hazard Category 4
 Skin Corr. / Irrit. 2: Skin Corrosive / Irritation, Hazard Category 2
 Eye Dam. 1: Eye Damage , Hazard Category 1
 Eye Dam. / Irrit. 2: Eye Damage / Irritation, Hazard Category 2
 Skin Sens. 1: Skin Sensitisation, Hazard Category 1
 Muta.2: Mutagenicity, Hazard Category 2
 Aquatic Chronic 2 H411
 Hazard Categories: 1 & 2: Fatal, 3: Toxic, 4: Harmful, 5: May be harmful
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 ADR / RID: Agreement on road transport of dangerous goods / regulations of the international transport of dangerous goods by rail
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 CLP: EU Regulation 1272/2008: Classification, Labelling & packaging of chemical substances
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Level (REACH)
 EC50: (Half maximal effective concentration) The concentration of a substance which induces a response halfway between the baseline and maximum after a specified exposure time
 EINECS: European Inventory of Existing Commercial Chemical Substances
 GGVSee: Transport of Dangerous Goods by Sea
 HSE: (UK) Health & Safety Executive
 IATA: International Air Transport Association
 IBC: International Building Code
 ICAO: International Civil Aviation Organisation
 IMDG: International Maritime Dangerous Goods
 LC50: Lethal concentration, 50% affected
 LD50: Lethal dose, 50% affected
 MARPOL: International Convention for the Prevention of Pollution from Ships
 SDS: Safety Data Sheet
 N/A: Not Applicable
 NDA: No Data Available
 NOEC: No observable effect concentration
 PBT: Persistent, Bioaccumulative and Toxic substances
 vPvB: Very Persistent and very Bioaccumulative substances

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REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals:
Regulation (EC) No 1907/2006

STEL: Short Term Exposure Limit

STOT RE: Specific target organ toxicity (from) repeated exposure

STOT SE: Specific target organ toxicity (from) single exposure

TWA: Time Weighted Averages

VOC: Volatile organic compounds

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP)

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Skin Corr. 1B: H314	Calculation
Eye Dam. 1: H 318	Calculation
Skin Sens. 1: H317	Calculation
Aquatic Chronic 2: H411	Calculation

16.5 Phrases Used in Sections 2 & 3

- **H Statements**
 - H226: Flammable liquid and vapour
 - H302: Harmful if swallowed
 - H312: Harmful in contact with skin
 - H314: Causes severe skin burns and eye damage
 - H315: Causes skin irritation
 - H317: May cause an allergic skin reaction
 - H318: Causes serious eye damage
 - H319: Causes serious eye irritation
 - H400: Very toxic to aquatic life
 - H411: Toxic to aquatic life with long lasting effects
 - H412: Harmful to aquatic life with long lasting effects
- **Hazard Class and Category Code**
 - Flam. Liq. 3: Flammable liquid, Hazard Category 3
 - Acute Tox. 4: Acute Toxicity, Hazard Category 4
 - Skin Corr. 1B/1C: Skin corrosion / irritation, Hazard Category 1B/1C
 - Skin Irrit. 2: Skin Irritation, Hazard Category 2
 - Eye Dam. 1: Serious eye damage / eye irritation, Hazard Category 1
 - Eye Irrit. 2: Eye Irritation, Hazard Category 2
 - Skin Sens. 1: Skin Sensitisation, Hazard Category 1
 - Aquatic Acute 1: Hazardous to the aquatic environment, Acute effects, Hazard Category 1
 - Aquatic Chronic 2: Hazardous to the aquatic environment, Long term effects, Hazard Category 2
 - Aquatic Chronic 3: Hazardous to the aquatic environment, Long term effects, Hazard Category 3
 - Hazard Categories: 1 & 2: Fatal, 3: Toxic, 4: Harmful, 5: May be harmful

16.6 Training advice

Obtain special instructions and read Safety Data Sheet before use. Do not handle until all safety precautions have been read and understood. It is recommended that workers are trained in the safe handling of hazardous chemicals

16.7 DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best on the Company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the users responsibility to satisfy themselves as to the suitability of such information for their own particular use. It shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

System 100

NEWTON 110 WATSTOP (PART C)

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Rev 3.0 - 16 October 2018

PRODUCT CODE - 110

SECTION 1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Identifier

- Product name Newton 110
- Product codes 110

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture Professional Use: Part C of a 3-part product, being a repair mortar and, with ≤40% water, a waterproofing membrane/vapour barrier
- Uses advised against Not for any other use

Details of the Supplier of the Safety Data Sheet

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

SECTION 2. Hazards Identification

- Refer to Section 16 for The explanation of the abbreviations used throughout this MSDS
The full list of Hazard Phrases & Precautionary Statements stated throughout this SDS

2.1 Classification of the Substance or Mixture

- Classification under CLP Eye Irrit. 2, H319
- Most important adverse effects Causes serious eye irritation

2.2 Label Elements

- Hazard statements As 2.1 Classification under CLP
- Signal words Warning
- Hazard pictograms



GHS07

- Precautionary statements
 - P280 Wear protective gloves / clothing and eye / face protection
 - P305+P338 IF IN EYES: Rinse cautiously with water for several minutes.
 - +P351 Remove contact lenses, if present and easy to do. Continue rinsing
 - P501 Dispose of contents / container to controlled waste

To be handled and used in accordance with good occupational hygiene and safety practice. Wear PPE as Section 8.2, handle and store as Section 7, manage accidental release as Section 6 and follow the instructions in the Data Sheet

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- Supplementary hazard information N/A
- Hazard determining component(s) Cement, alumina, chemicals

2.3 Other Hazards

- PBT / vPvB This mixture is not PBT or vPvB
- Other Hazards NDA
- Other information Classification and labelling have been made on the basis of safety data sheets of raw materials that make up the product

SECTION 3. Composition/information on ingredients

3.2 Mixture This product is a mixture

Hazardous Substances

Chemical name	CAS	EINECS	REACH Registration Number	% w/w	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Additional information
Cement, alumina, chemicals	65997-19-2	266-045-5		90-100	Skin Irrit.2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	Has WEL

Additional information

High-Alumina cement is a mixture of chemical substances produced by burning or sintering at high temperature (greater than 1,200°C / 2,192°F) raw materials which are predominantly calcium carbonate, aluminium oxide, silica and iron oxide. The chemical substances which are manufactured are confined in a crystalline mass

NB

Refer to SECTION 8 for Personal Protection / Exposure Controls

Refer to SECTION 16 for the full text of Hazard and EU Hazard Statements

SECTION 4. First Aid Measures

4.1 Description of First Aid Measures

- General Never give anything by mouth to an unconscious person. If any symptoms persist or you feel unwell, seek medical advice, taking this SDS to show the doctor
- Skin contact Wash thoroughly with plenty of water. If skin irritation occurs, get medical advice / attention
- Eye contact Rinse cautiously with water for several minutes holding the eyelids open. Remove contact lenses if present and easy to do so, then continue to rinse for at least 15 minutes. If eye irritation persists, get medical advice / attention
- Ingestion Wash out mouth with water for several minutes. Do not induce vomiting without medical advice. If vomiting occurs, the head should be kept forward and low so vomit does not enter the lungs. Get medical advice / attention if discomfort persists
- Inhalation In case of dust inhalation, remove person to fresh air and keep calm and comfortable for breathing. Get medical advice / attention if discomfort persists
- Self-protection for first aiders No action to be taken involving any personal risk or without suitable training. If it is suspected that the mixture is still present, wear appropriate Personal Protection Equipment, see SECTION 8.2. Wear gloves to remove contaminated clothing, see SECTION 13 for washing or disposal

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

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- Skin contact May cause an allergic skin reaction. Irritation to the skin
- Eye contact Causes serious eye irritation
- Ingestion NDA
- Inhalation Frequent inhalation of cement for a long period increases the risk of lung diseases
- Delayed / immediate effects NDA

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Immediate / special treatment No specific treatment. Treat symptomatically
If respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Do not give mouth-to-mouth resuscitation
If ingested or inhaled in large amounts, immediately seek medical advice
Those assisting the exposed persons to take no action involving personal risk or without training. Performing mouth-to-mouth can be dangerous, only to be done by trained personnel
Eye bathing equipment and First Aid Box should be available
Take this SDS with you when seeking medical advice

SECTION 5. Fire-Fighting Measures

- 5.1 Extinguishing Media** Select as required by the surrounding fire, materials, etc
Unsuitable extinguishing materials: do NOT use heavy water stream, jet
- 5.2 Special Hazards Arising from the Material**
No special hazards arising from this substance
Hazardous decomposition products: none
- 5.3 Advice for Firefighters**
Isolate the affected area
All persons to be immediately removed from the vicinity of the fire. Fire to be dealt with by trained personnel and without involving personal risk
The method of extinguishing the fire and the extinguishing agent used to be appropriate to the local circumstances and environment
Collect the fire fighting water separately. Prevent from entering the environment, waterways, sewers and drains
Do not enter the area without wearing self-contained breathing apparatus for fire-fighting, protective gloves and protective clothing

SECTION 6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Non-emergency personnel Do not attempt to take action without wearing suitable personal protection, refer to SECTION 8.2 of the SDS
Do not touch or walk through the spilled material. Avoid inhalation of vapour or mist - ensure adequate ventilation. Wear respiratory protection if ventilation is inadequate EU EN 143
- Emergency personnel Evacuate unnecessary personnel and those not wearing the suitable protection. If outside do not approach from downwind. If outside keep bystanders and passing persons upwind and away from the danger point. Mark out the contaminated area with signage and prevent access by unauthorised persons
Avoid inhalation of dust. Avoid contact with skin, eyes and clothing. Wear respiratory protection as SECTION 8.2

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- Ensure adequate ventilation, including forced ventilation if in an internal space and necessary, vent externally to be safely away from other persons and the general public
- Turn leaking containers leak-side up to prevent the escape of material, and place in a sealable leak proof labelled container
- 6.2 Environmental Precautions** Avoid release to the environment. Avoid creating dust. Do not disperse dust into the environment
- Contain the spillage using bunding
- 6.3 Methods and Materials for Containment and Cleaning Up**
- Clean-up should ONLY be dealt with by a qualified person familiar with the specific product
- Stop the leak if it is safe to do so. Vacuum up, if swept up do carefully to not release dust into the air
- Large spillages should be contained by bunding and carefully transferred into sealable impervious containers. Remnants from large spillages and small spillages should be absorbed and transferred into these containers
- All contaminated bunding, including all suspected of being contaminated, to be collected up and transferred to sealable impervious containers
- All containers to be labelled and held for disposal as Section 13
- 6.4 Reference to Other Sections** Refer to SECTIONS 8 (Personal Protection / Exposure Controls), 12 (Ecological Information) and 13 (Disposal Consideration) of the SDS

SECTION 7. Handling and Storage

7.1 Precautions for Safe Handling

- a. Safe handling
- Avoid direct contact with the material, to skin, eyes, mucous membranes and clothing, wear protective equipment as SECTION 8. Do not wear contact lenses when working with this product. Ensure there is sufficient ventilation of the area. Wear filter mouth & nose mask protection in a confined space EN149:2001 FFP2 if ventilation is inadequate or particulates are present. Avoid the formation or spread of dust in the air. If in a confined or unventilated space wear respiratory protection EU EN 143
- Do not breathe dust
- Do not eat, drink or smoke when handling. Wash hands after using the material and remove contaminated clothing and protective equipment before entering areas where food and drink are consumed
- Do not wear contaminated clothing at home. See SECTION 13 for the washing or disposal of contaminated clothing and boots
- b. Prevention of handling incompatible substances or mixtures
- Do not handle other substances or mixtures at the same time. Keep away from other substances and mixtures
- c. Operations and conditions that could create new risks
- Do not allow opened, part used or the container in use to come into contact with other materials including all surfaces around. Ensure the containers are securely sealed during transport and storage in vehicles
- d. Reduce risk of release to the environment
- Avoid spillage. Ensure the floor at storage, transport and the work location will not allow access to drains or water courses. Lay heavy gauge plastic sheeting or similarly impervious protective covering. Contain and clean up spillage as SECTION 6.3 of the SDS

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7.2 Conditions for Safe Storage, Including Any Incompatibilities

- a. Storage conditions
Store in a well ventilated locked area, between +5°C and 35°C and away from direct sunlight. Only store in original containers. Keep container tightly closed. The floor of the storage area to be impermeable to prevent the escape of spillage
- b. Control of the effects of weather, ambient pressure, temperature, sunlight, humidity and vibration
Protect from moisture. Keep away from sources of ignition, open flames or excessive heat
Ensure containers are securely closed against vibration spillage during transport when loading / unloading vehicles, during transport and moving from vehicle to the work location. Unopened containers to be protected against damage during the same movements
- c. Storage with other substances and mixtures
Store in the original packaging. Store against falling / touching other materials and in an allocated location
Store away from sources of moisture
- d. Storage room design, quantity limits, ventilation and packaging compatibilities
Storage room to be dry, ventilated, and constructed to have impermeable floors and walls to prevent the escape of spillages into the environment
- e. Other considerations
Use of the stock must be by manufacturing date or expiry date rotation. Containers past their expiry date must be removed for disposal according to SECTION 13 of the SDS. No other data available

7.3 Specific End Use(es)

Part C of a 3-part repair mortar. With ≤40% water added, a waterproofing membrane / vapour barrier. Refer to the technical Data Sheet for further information

SECTION 8. Personal Protection/Exposure Control

8.1 Control Parameters

Workplace Exposure Limits (WEL) Taken from the HSE EH40/2005 (3rd Edition, 2018):
- no limit stated = not on EH40
- if no 15 min STEL, 3x TWA used

Comments Key
Carc: Capable of causing cancer and / or heritable genetic damage
Sen: Capable of causing occupational asthma
Sk: Can be absorbed through the skin, assigned here to substances for which there are concerns that dermal absorption will lead to systematic toxicity

Substance (Alumina = aluminium oxides)	Long-term exposure limit (8hr TWA reference period)		Short-term exposure limit (15 minute reference period)		Comments
	ppm	mg / m ³	ppm	mg / m ³	
Cement, alumina, chemicals, inhalable dust		7.5	No TWA stated in EH40, apply 15 minutes maximum Always wear respiratory protection		N/A
Cement, alumina, chemicals, respirable dust		2.5			N/A
Dust, inhalable	-	10			
Dust, respirable		4			

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Derived No Effect Level (DNEL)				
Route of Exposure	Acute Effects Local	Acute Effects Systemic	Chronic Effects Local	Chronic Effects Systemic
Substance: CAS 26761-45-5 Cement, alumina, chemicals				
Inhalation	-	-	-	2.5 mg/m ³
Dermal	-	-	-	-
Eyes	-	-	-	-

Predicted No Effect Level (PNEC)		
Substance	Environmental Protection Target	Value
Cement, alumina, chemicals	Fresh water	250 mg/L
	Intermittent releases (fresh water)	260 mg/L
	Freshwater sediments	No or insufficient data available at present
	Marine water	No data: aquatic toxicity unlikely
	Marine water sediments	No or insufficient data available at present
	Sewage treatment plant	10 mg/L
	Soil	No or insufficient data available at present

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls

- a. Ventilation

Ensure there is sufficient ventilation in the area, including forced ventilation if necessary or in an internal or enclosed space, with filtered collection equipment (e.g. Air Cube) or safe exhaust away from other persons. The floor must be impermeable to prevent the escape of material, laying impermeable protective covering if in doubt

Avoid work practices which generate dust. Avoid inhalation and skin and eye contact
- b. Isolation

Isolate the work area with warning signage against unauthorised access. Ensure all other persons are pre-notified of the works and remain clear of the work area
- c. Washing

Provide eye wash facilities and safety shower
- d. Against contamination

Only mix the 3 Parts of the WATstop on impervious protective sheeting against splashes onto both the person(s) performing this task and onto the surrounding area:

 - When opening each Part and when progressively dispensing them together
 - When using the power mixer / paddle off drill, include erecting a barrier around if necessary to stop splashes off the protective sheeting or onto other structures, etc
 - The person(s) performing this to wear disposable overshoes over their safety work boots when working off the protective sheeting
 - When the mixing is done, dispose of the contaminated protective sheeting, the overshoes, etc as controlled waste
- e. Dust

Prevent the formation of air borne dust
- f. Hygiene & Occupational care

Do not eat, drink or smoke during stirring or use of the product. Wash hands with soap and water before eating, drinking or smoking and when leaving the work site for natural breaks, break times and at end of day

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8.2.2 Personal Protective Equipment

- | | |
|------------------------------------|---|
| a. Work clothing | Impervious disposable 1-piece covering to body, legs and arms with closure at wrists and ankles, and over protective work wear |
| b. Eye / face protection | Tight fitting safety goggles, safety glasses with side protection or face visor EN166. Ensure eye bath facilities and individual eye wash ampoules are available |
| full | If at risk of splashing to face when mixing the 3-part product only wear a face visor |
| c. Skin protection | |
| (i) Hand Protection | To be impermeable and resistant to the product / substance / mixture. Due to missing tests no recommendation to the glove material can be given Selection of the glove material to be on consideration of the penetration times, rates of diffusion and the degradation |
| Material of gloves | The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC, this being repealed by EU 2016/425 on 21/04/2018, and the resultant standard EN 374

The selection of the suitable gloves does not only depend upon the material, but also further marks of quality and varies from manufacturer to manufacturer

Break through, and other characteristics, depending upon material density and the glove type, and must be determined in each case

Gloves to be tightly fitting at the wrists and extend onto the disposable 1-piece covering. Cloves must be inspected prior to each time used and must be replaced when damaged or worn out

Impervious gloves, chemical resistant: PVC, nitride rubber, natural rubber, neoprene gloves nitride rubber, butyl rubber or butyl rubber gloves to the elbow; conforming to EN 374 |
| Penetration time of gloves | Breakthrough time of the glove material > 4 hours |
| (ii) Other | Chemical resistant safety boots with external feed for the laces, not holes for the laces

Safety helmet if required, or other head covering, against splashes

Good hygiene measures should be followed at all time |
| d. Respiratory protection | Part C is only opened and used when each of the 3 parts of the product are being mixed for application of the product, therefore respiratory protection requirements against the cementitious dust from Part C must be combined with the respiratory protection requirements for Parts A and B:
- Mouth & nose filter face mask to P2EN149:2001 FFP2 vapour & particulate filter, or especially when spraying. In the case of inadequate ventilation wear respiratory protection EU EN 143 filter cartridge
- Mist formation; wear aerosol mask EN 143 |
| e. Thermal hazards | NDA |
| f. Environmental exposure measures | Avoid release to the environment |
| g. Hygiene measures | Wash thoroughly after handling. Do NOT eat, drink or smoke while using this product. Remove contaminated clothing, see SECTION 13 for the washing or disposal of contaminated clothing |

SECTION 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

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• Appearance	(i) Form	Powder
	(ii) Colour	White / light grey
• Odour		Odourless
• Odour threshold		N/A
• pH		11.4 @ 25°C and 10g/L
• Melting point/range °C		>1,250°C
• Freezing point/range °C		NDA>1,250°C
• Initial boiling point/range °C		NDA
• Flash point/self-ignition °C		N/A
• Evaporation rate		N/A
• Flammability (solid, gas) (Limits in air)		Non-flammable
• Auto ignition temperature		>400°C
• Decomposition temperature		NDA
• Explosive properties		Not explosive
• Explosive limits		N/A
• Oxidising properties		Not oxidising
• Vapour pressure		N/A
• Relative vapour density (AIR =1)		N/A
• Relative density		ca. 2.238 g/m ³
• Specific weight		1.53 kg/L
• Solubility in water		640 mg/L @ 20°C and pH 10
• Partition coefficient n-octanol/water		NDA
• Also soluble in		NDA
• Viscosity, (ASTM D445)		N/A
• VOC g/l		NDA
NOTE:		The above values are based on the data for cement, alumina, chemicals
9.2 Other Information		No other information

SECTION 10. Stability and Reactivity

10.1 Reactivity	Exothermic reaction when mixed with water, cement will form and harden Stable under recommended transport and storage conditions
10.2 Chemical Stability	Stable at room temperature, under recommended transport or storage conditions and when protected against the materials or conditions listed in SECTIONS 10.1 and 10.3
10.3 Possibility of Hazardous Reactions	None known
10.4 Conditions to Avoid	Moisture
10.5 Incompatible Materials to Avoid	Acids, ammonium salts, aluminium
10.6 Hazardous Decomposition	No hazardous decomposition products under normal conditions of storage and use

SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects

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Hazardous ingredients - 110 WATstop NDA
 - substances See tables below

Relevant hazards for product

Hazard	Negative Symptoms
Inhalation	Frequent inhalation of cement for a long period increases the risk of lung diseases
Ingestion	NDA
Eye contact	Causes serious eye irritation
Skin contact	May cause an allergic reaction. Causes skin irritation

Other hazards

Hazard	Basis
Acute toxicity - oral	Not classified. Based on the available data the classification criteria is not met LD50 (Rat) > 2,000 mg/kg
Acute toxicity - dermal	Not classified. Based on the available data the classification criteria is not met LD50 (Rat) > 2,000 mg/kg
Acute toxicity - inhalation	Not classified. Based on the available data the classification criteria is not met LD50 (Rat) > 2,000 mg/kg
Respiratory hazard	Not classified. Based on the available data the classification criteria is not met
Skin corrosion / irritation	Not classified. Based on the available data the classification criteria is not met
Serious eye damage	Eye Irrit. 2: Causes serious eye irritation
Skin sensitisation	Not classified. Based on the available data the classification criteria is not met
Aspiration hazard	Not classified. Based on the available data the classification criteria is not met
Germ cell mutagenicity	Not classified. Based on the available data the classification criteria is not met
Carcinogenicity	Not classified. Based on the available data the classification criteria is not met
Reproductive toxicity	Not classified. Based on the available data the classification criteria is not met
STOT single exposure	Not classified. Based on the available data the classification criteria is not met
STOT repeated exposure	Not classified. Based on the available data the classification criteria is not met

Other information No other information

SECTION 12. Ecological Information

12.1 Toxicity

Not classified. Based on the available data the classification criteria is not met

Hazardous ingredients	Specie	Test	Duration	Value
Cement, alumina, chemicals	Fish	LC50	96 hr	100 mg/L
	Aquatic invertebrates	EC50	48 hr	5.4 mg/L
	Algae / aquatic plants	EC50	72 hr	3.6 mg/L
	Micro-organisms	EC50	3hr	1 g/L

12.2 Persistence and Biodegradability Biodegradation is not applicable to inorganic substances

12.3 Bioaccumulative Potential Low potential for bioaccumulation

12.4 Mobility in Soil NDA

12.5 Results of PBT & vPvT Assessment This mixture is not PBT or vPvB

12.6 Other Adverse Effects NDA

Avoid release to the environment

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12.7 Additional information

NDA

SECTION 13. Disposal Considerations

13.1 Contaminated work wear, tools, etc

It is recommended that all collected cured WATstop, Part A & B inner containers, paddle washings, and tools, sheeting, clothing, etc for controlled disposal, are placed in WATstop containers that are contaminated from the mixing. These containers to be tightly sealed and labelled with their contents

For WATstop fully cured timings, see Data Sheet, ranges from 2 days at 25°C to 7 days at 5°C

- Work wear
 - a) Dispose of contaminated 1-piece impervious protective overall as controlled waste
 - b) Anything contaminated with Part A to be disposed of as controlled waste
 - c) Heavy WATstop contamination on work wear under the disposable overall:
 - Do not wash
 - Allow the WATstop to cure as above
 - Dispose as contaminated waste
 - d) Light WATstop contamination on work wear under the disposable overall:
 - Allow the WATstop to fully cure as above
 - Scrape off the contamination and dispose as controlled waste
 - Then wash
- Part C contamination

Dispose of remnants and the container (bag) as controlled waste. The container must not be reuse for other purposes

Place the remnants and containers in an empty WATstop container and labelled with the contents and marked for controlled waste disposal
- WATstop contamination
 - a) Brushes, rollers, paint trays, brooms, protective sheeting and all other contaminated items:
 - Allow the WATstop to fully cure as above and dispose as controlled waste.
 - b) Trowels, scrapers, fillet knives, etc:
 - Allow the WATstop to fully cure as above
 - Scrape off if possible and bag the scrapings for disposal as controlled waste
 - If the WATstop cannot be removed, dispose the tool(s) as controlled waste
 - c) Mixing paddles and mixing containers:
 - Stand the paddle in water in a tub, scrubbing it clean between mixes.
 - After the final paddle clean, pour the washing / water into a WATstop tub, tightly seal the tub and label it with the contents as controlled waste
 - Close all contaminated original WATstop containers and dispose of as controlled waste, labelling them with the content

13.2 Waste Treatment Methods

- Disposal operations

Mixed product, Part C and the container to be treated as SECTION 6: 'Accidental Release Measures'. Recovery is not applicable and they must be disposed as controlled waste under local, national or EC Regulations

All containers, original and spillage, etc collection, to be labelled, tightly sealed and held for controlled waste disposal

The product and Parts A, B and C must not be disposed of in sewers, drains,

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- Recovery operations: canals, natural waterways or rivers
- Waste code number: N/A. Dispose as the above 'Disposal operations'
- Disposal of packaging: The material 110 WATstop & Part A: 17 09 03*
Packaging containers: 15 01 10*
- Special precautions for the disposal method: Contaminated containers: Dispose as controlled waste
NOTE: Containers must be considered as not being able to be cleaned
Ensure substances or mixtures are not mixed with other materials and not held in the same outer container with other materials
- NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

SECTION 14. Transport Information

- Note:** Cement, alumina is not hazardous for transport
- 14.1 UN Number: N/A
 - 14.2 UN Proper Shipping Name: N/A
 - 14.3 Transportation Hazard Class(es): N/A
 - 14.4 Packing Group: N/A
 - 14.5 Environmental Hazards: N/A
 - 4.6 Special Precautions for User: N/A
 - 14.7 Transport in Bulk According to:
 - (i) Annex II of Marpol: N/A
 - (ii) the IBC Code: N/A

SECTION 15. Regulatory Information

- 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance, Mixture or Article
COMMISSION REGULATIONS (EC) No 1272/2008 and (EU) No 2015/830 of 28/05/2015 amending Regulation (EC) No 1907/2006 and repealing (EU) 453/2010 20 May 2010 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- Other regulations, limitations and prohibitive regulations

Authorisations and / or restrictions on use

Substances in this product (Part C) are not listed on Annex VXII, Annex XIV or the Candidate List of SVHC substances to REACH

- 15.2 Chemical Safety Assessment: A chemical safety assessment is not available for this mixture. Data from the component substances is included in this MSDS

SECTION 16. Other Information

16.1 Changes Compared to the Previous Version

Date	Sections	Item	Change	Comment (none = read all)
16/10/18		Change table	Added	
	All	Full re-write		Read the entire document

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16.2 Key literature and sources of data Regulation (EC) 1907/2006
 Regulation (EC) No. 1272/2008
 Regulation (EU) No. 2015/830
 Supplier SDS
 ECHA, including REACH dossier for component substances
 EH40/2005 3rd Edition, 2018

16.3 Abbreviations & Acronyms

bw.: body weight
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 ADR / RID: Agreement on road transport of dangerous goods / regulations of the international transport of dangerous goods by rail
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 CLP: EU Regulation 1272/2008: Classification, Labelling & packaging of chemical substances
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Level (REACH)
 EC50: (Half maximal effective concentration) The concentration of a substance which induces a response halfway between the baseline and maximum after a specified exposure time
 EINECS: European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substance number
 HSE: (UK) Health & Safety Executive
 IATA: International Air Transport Association
 IBC Code: International Building Code
 IMDG: International Maritime Dangerous Goods
 LC50: Lethal concentration, 50% affected
 MARPOL: International Convention for the Prevention of Pollution from Ships
 SDS: Safety Data Sheet
 N/A: Not Applicable
 NDA: No Data Available
 PBT: Persistent, Bioaccumulative and Toxic substances
 vPvB: Very Persistent and very Bioaccumulative substances
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals: Regulation (EC) No 1907/2006
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
 STEL: Short Term Exposure Limit
 STOT RE: Specific target organ toxicity (from) repeated exposure
 STOT SE: Specific target organ toxicity (from) single exposure
 TWA: Time Weighted Averages
 VOC: Volatile organic compounds

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP)

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Eye Irrit. 2: H 319	Calculation

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16.5 Phrases Used in Sections 2 & 3

- H Statements H319: Causes serious eye irritation
- Hazard Class and Category Code Eye Irrit. 2: Eye Irritation, Hazard Category 2
Hazard Categories: 1 & 2: Fatal, 3: Toxic, 4: Harmful, 5: May be harmful

16.6 Training advice

Obtain special instructions and read Safety Data Sheet before use. Do not handle until all safety precautions have been read and understood. It is recommended that workers are trained in the safe handling of hazardous chemicals

16.7 DISCLAIMER

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