System 100

NEWTON 103-S Part A

High Performance Liquid Waterproofing Membrane

Rev 2.0 - 12 December 2019

PRODUCT CODE - 103-S

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

Product Identifier

- Product form: Mixture
- Product name: Newton 103-S
- Product codes: 103-S

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture: Professional Use only
Internal and external waterproofing
- 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 SDS
The full list of Hazard Phrases & Precautionary Statements stated throughout this SDS

2.1 Classification of the Substance or Mixture

- Classification under Regulation (EC) No. 1272/2008 (CLP): Not classified
- Adverse physicochemical, human health and environmental effects: See SECTION 11 for information on health effects and symptoms

2.2 Label Elements

- Hazard statements: No labelling applicable
- Signal words (CLP): N/A
- Hazard pictograms (CLP): N/A
- Hazardous ingredients: N/A
- Hazard statements (CLP): N/A
- Precautionary statements (CLP): 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
- Supplemental label elements: Contains reaction mass of::5-chloro-2-mthyl-4-isothiazolin-3-one [EC No. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No. 220-239-6] (3.1 and 1, 2-benzisothiazol-3(2H)-one. May produce an allergic reaction. Safety Data Sheet available on request

2.3 Other Hazards

- Other Hazards: NDA
- Other information: Classification and labelling have been made on the basis of safety data sheets of the 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	REACH Registration Number	%	Classification according to Regulation (EC) No. 1272/2008 (CLP)
1,2-benzisothiazol-3(2H)-one	CAS: 2634-33-5 EC: 220-33-5 Index: 613-088-00-6		<0.025	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
Reaction mass of:5-chloro-2-mthyl-4-isothiazolin-3-one [EC No. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No. 220-239-6] (3.1)	CAS: 55965-84-9 Index: 613-167-00-5		<0.0015	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Skin Sens.. 1, H317 Acute Tox. 3, H400 (M =1) Acute Chronic 1, H410 (M=1)

NB

Refer to SECTION 8 for Occupational Exposure Limits & Controls and Personal Protection

Refer to SECTION 16 for the full text of Hazard Statements

There are no additional ingredients present, which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, or are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this SECTION.

SECTION 4. First Aid Measures

4.1 Description of First Aid Measures

- General: Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. If exposed or concerned get medical advice / attention. If you feel unwell, seek medica 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 medial advice
- Skin contact: Remove contaminated clothing. Gently remove all traces of product and wash with plenty of soap and water. Continue to rinse for at least 10 minutes. If skin irritation or rash occurs seek medial advice / attention. Do NOT use solvents or thinners
- Eye contact: Do not rub. Immediately rinse eyes cautiously with plenty of water for at least 15 minutes holding the eyelids open. Remove contact lenses if present and easy to do so, then continue to rinse copiously for 15 minutes. Obtain

	medical attention if pain, irritation, blinking or redness persists
• Ingestion	If swallowed, seek medical advice immediately and show the container or label, and this SDS. Keep person warm and at rest. Do NOT induce vomiting. 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. Seek medical advice if you feel unwell
• Inhalation	Immediately ventilate the area and remove person from the contaminated place to rest in fresh air and keep comfortable and breathing. Assure fresh air breathing. Loosen tight clothing such as collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If you feel unwell seek medical advice
• **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

Potential acute health effects:

• Skin contact	No known significant effects or critical hazards
• Eye contact	No known significant effects or critical hazards
• Ingestion	No known significant effects or critical hazards
• Inhalation	No known significant effects or critical hazards
• Delayed / immediate effects	NDA

Over-exposure signs / symptoms:

• Skin contact	No specific data
• Eye contact	No specific data
• Ingestion	No specific data
• Inhalation	No specific data

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

• Immediate / special treatment	No specific treatment. Treat symptomatically. Contact poison centre immediately if large quantities have been ingested or inhaled

SECTION 5. Fire-Fighting Measures

5.1 Extinguishing Media

Use an extinguishing agent suitable for the surrounding fire

Unsuitable extinguishing media:
- None known

5.2 Special Hazards Arising from the Material

In a fire or if heated, a pressure increase will occur and the container may burst

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

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 appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. Clothing, including helmets, protective boots and gloves, conforming to EN 469 will provide a basic level of protection for chemical incidents

SECTION 6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

• General measures	Do not attempt to take action without wearing suitable personal protection, refer to SECTION 8.2 of the SDS
	Ensure adequate ventilation
• Non-emergency personnel	Evacuate unnecessary personnel
•	Do not touch or walk through the spilled material. Ventilate spillage area. Do not breathe dust / fumes/ gas / vapours / mist / spray. Avoid contact with skin and eyes
• 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
	Do not attempt to take action without suitable protective equipment. Equip clean-up crew with proper protection, see SECTION 8 'Exposure controls / personal protection'
	Ensure adequate ventilation, including forced ventilation if in an internal space and necessary, and 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 container, label this with the contents
	Avoid inhalation of vapours, wear respiratory protection as SECTION 8.2
6.2 Environmental Precautions	Prevent the product from contact with soil and from entering drains, sewers, watercourses, basements or confined spaces (refer to SECTION 11). Contain the spillage using bunding
	Alert the Environmental 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 qualified persons familiar with the specific product
	Stop the leak / spillage if it is safe to do so
	Large spillages should be contained by bunding using absorbent materials 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
	All washings to be retained within the bunding and fully collected up into sealable impervious waste container(s), label these with the contents
	All contaminated bunding, including all suspected of being contaminated, to be collected up and transferred to these waste containers
	All containers to be labelled and held for disposal as SECTION 13
6.4 Reference to Other Sections	Refer to SECTIONS 1 (Emergency contact), 8 (Personal Protection / Exposure Controls), 12 (Ecological Information) and 13 (Disposal Consideration)

Newton House, 17-20 Sovereign Way, Tonbridge, Kent, TN9 1RH
T: +44 (0)1732 360095 **W:** www.newtonwaterproofing.co.uk **E:** info@newtonwaterproofing.co.uk

SECTION 7. Handling and Storage

The information in the SECTION includes generic advice and guidance. The list of 'Relevant identified uses' in SECTION 1 should be consulted for any available use-specific information provided here and in SECTION 8

7.1 Precautions for Safe Handling

a. Safe handling

Wear protective equipment as required by use- see SECTION 8

Do not get in eyes, on skin or on clothing - see SECTION 8 for the protection of work clothing. Do not ingest. Obtain special instructions before use. Do not handle or use until all safety precautions have been read and understood.

Only use outdoors or in well ventilated areas, wear appropriate respirator when ventilation is inadequate. Keep in original container, kept tightly closed when not in use

Do not breathe vapours, aerosols or gases

b. Hygiene measures

Do not eat, drink or smoke when handling. Wash hands and other exposed areas with mild soap and water after using the material and remove contaminated clothing and protective equipment before entering areas where food and drink are consumed and when leaving the work site

Contaminated work clothing should be securely bagged before being allowed out of the work site. See SECTION 13 for the protection of work clothing and the washing or disposal of contaminated work clothing and boots. Wash hands and face before eating, drinking, smoking and using the toilet

c. 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

d. 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, storage and when at the work site

e. 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 when mixing and dispensing. 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, keep cool, away from direct sunlight and in accordance with local regulations. Only store in original containers. Keep container tightly closed. Don not store in unlabelled containers, if transferred to another container include the Batch Number and Manufacturing or Expiry Date on the new label. The floor of the storage area to be impermeable to prevent the escape of spillage

b. Maximum storage period

Maximum storage period (shelf life): 12 months from date of manufacture when stored at 20°C (68°F)

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

c. 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

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transport when loading / unloading vehicles, during transport and moving from vehicle to the work location. Unopened containers to be protected against damage during these movements

d. Storage with other substances and mixtures

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

e. 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

f. Other considerations — No other data available

7.3 Specific End Use(es) — Part A of a 2-Part liquid applied cementitious waterproofing membrane. Refer to the Technical Data Sheet for further information

SECTION 8. Personal Protection/Exposure Control

The information in this SECTION contains generic advice and guidance and is based on typical anticipated uses of the product. Additional measures might be required for bulk handling or uses other than those described in the Technical Data Sheet that could significantly increase worker exposure or environmental releases

8.1 Control Parameters

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

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

Substance & CAS	Long-term exposure limit (8hr TWA reference period)		Short-term exposure limit (15 minute reference period)		Comments	Source
	ppm	mg / m³	ppm	mg / m³	The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to substances identified in IOELV Directives	
No exposure limits known						
	NDA - not on the EH40 Table					HSE

DNELs / DMELs — **No DNELs / DMELs available**

PNECs — **No PNECs available**

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, individual eye wash ampoules and safety shower

d. Against contamination — Refer to SECTION 15.1 for any 'Other Regulations' and the REACH Annex XVII statements there
Only mix the 2 Parts of the product on impervious protective sheeting and

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T: +44 (0)1732 360095 **W:** www.newtonwaterproofing.co.uk **E:** info@newtonwaterproofing.co.uk

	with this laid at the area(s) where the mixed product is to be applied, against splashes onto the person(s) performing this task, any other persons and onto the surrounding areas: • When opening each Part and when progressively mixing them together • When using the power mixer / paddle off a drill, include erecting barrier around if necessary to stop splashes off the protective sheeting onto other persons, structures, ground, etc • When applying the mixed product to the area(s) to be treated • The person(s) performing this to wear disposable overshoes over their safety work boots when working off the protective sheeting against walking contamination onto the surrounding area • 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, face and if uncover forearms with soap and water before eating, drinking, smoking, using the toilet 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	Wash contaminated work clothing before reusing. Alternatively wear impervious disposable 1-piece covering to body, legs and arms with closure at wrists and ankles, and disposable overshoes. EN ISO 13688
b. Eye / face protection	Tight fitting safety chemical goggles / safety glasses with side protection or face visor, to EN166 If at risk of splashing to face when mixing the 2-part product wear a full face visor
c. Skin protection (i) Hand Protection	To be impermeable chemical resistant gloves, resistant to micro-organisms, to EN 374
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 Recommended: Butyl rubber gloves. 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 work clothing, see above. Gloves must be inspected prior to each time used and must be replaced when damaged or worn out
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	Mouth & nose filter face mask to EN149:2001, with Face Fit Certification In the case of inadequate ventilation wear an appropriate gas filter (i.e. type A according to EN 14387). Ensure the filter is within its working limits Mist formation; wear protection as for inadequate ventilation
e. Thermal hazards	NDA
f. Environmental exposure measures	Avoid release to the environment

	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental legislation. Apply process engineering modifications, ventilation filters, etc. if required
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	White
• Odour		Faint odour (slight)
• Odour threshold		NDA
• pH		8
• Melting point/range °C		NDA
• Freezing point/range °C		NDA
• Initial boiling point/range °C		Lowest known value: 100°C (212°F) (water)
• Flash point/self-ignition °C		Closed cup: 101°C
• Evaporation rate		NDA
• Flammability (solid, gas)		NDA
• Flammability limits, lower %		NDA
• Flammability limits, upper %		NDA
• Auto flammability °C		NDA
• Decomposition temperature		NDA
• Explosive properties		NDA
• Explosive limits		NDA
• Oxidising properties		NDA
• Vapour pressure		NDA
• Relative vapour density at 20°C		NDA
• Relative density		1.02
• Specific weight		NDA
• Solubility in water		Soluble in cold water
• Partition coefficient n-octanol/water		NDA
• Also soluble in		NDA
• Viscosity, kinematic		1123.38 mm^2/s (room temperature)
• 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

Newton House, 17-20 Sovereign Way, Tonbridge, Kent, TN9 1RH
T: +44 (0)1732 360095 **W:** www.newtonwaterproofing.co.uk **E:** info@newtonwaterproofing.co.uk

SECTION 10. Stability and Reactivity

10.1 Reactivity No specific test data related to reactivity is available for this product

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 Under normal conditions of storage and use (see the Technical Data Sheet), hazardous reactions will not occur

10.4 Conditions to Avoid No specific data

10.5 Incompatible Materials to Avoid No specific data

10.6 Hazardous Decomposition Products Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects

In the absence of experimental toxicological data on the product itself, potential health risks were evaluated based on the properties of the constituent substances, according to the criteria from relevant regulations for Classification

- Acute toxicity - Hazardous ingredients

Substance	Route	Test	Species	Value	Exposure
1,2-benzisothiazol-3(2H)-one	Oral	LD50	Rat	1,020 mg/kg	-
Reaction mass of:5-chloro-2-mthyl-4-isothiazolin-3-one [EC No. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No. 220-239-6] (3.1	Oral	LD50	Rat	53 mg/kg	-

- Conclusion: NDA

- Irritation / Corrosion - Hazardous ingredients

Substance	Result	Species	Score	Exposure	Observation
1,2-benzisothiazol-3(2H)-one	Skin - mild irritant	Human	-	48 hours 5%	-
Reaction mass of:5-chloro-2-mthyl-4-isothiazolin-3-one [EC No. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No. 220-239-6] (3.1	Skin - severe irritant	Human	-	0.01%	-

- Conclusion: NDA

- Relevant hazards for product

Hazard	Negative Symptoms
Acute toxicity - oral	Harmful if swallowed
Skin corrosion / irritation	Harmful to skin

Other hazards

Hazard	Basis
Respiratory hazard / inhalation	NDA
Serious eye damage / irritation	NDA
Skin sensitisation	NDA
Carcinogenicity	NDA
Germ cell mutagenicity	NDA
Reproductive toxicity	NDA

STOT single exposure	NDA
STOT repeated exposure	NDA
Acute toxicity - dermal	NDA
Acute toxicity - inhalation	NDA
Aspiration hazard	NDA

- Viscosity, kinematic — 1,123.38 mm^2/s (room temperature)
- Potential acute health effects

Eye contact	- No known significant effects or critical hazards
Inhalation	- No known significant effects or critical hazards
Skin contact	- No known significant effects or critical hazards
Ingestion	- No known significant effects or critical hazards

- Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	- No specific data
Inhalation	- No specific data
Skin contact	- No specific data
Ingestion	- No specific data

- Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short-term exposure	Potential immediate effects	- NDA
	Potential delayed effects	- NDA
Long-term exposure	Potential immediate effects	- NDA
	Potential delayed effects	- NDA
Potential chronic health effects	NDA	
Conclusion	NDA	

General	- No known significant effects of critical hazard
Carcinogenicity	- No known significant effects of critical hazard
Mutagenicity	- No known significant effects of critical hazard
Teratogenicity	- No known significant effects of critical hazard
Developmental effects	- No known significant effects of critical hazards
Fertility effects	- No known significant effects of critical hazard

- Other information — NDA

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

SECTION 12. Ecological Information

12.1 Toxicity

Substance	Species	Test	Result		Exposure
1,2-benzisothiazol-3(2H)-one	Daphnia - Daphnia magna	EC50	1.5 mg/L	Acute	48 hours
	Daphnia - Daphnia magna	EC50	97 ppb Fresh water	Acute	48 hours
	Algae - Pseudokirchneriella subcapitata	IC50	0.067 mgL	Acute	72 hours
	Crustaceans - Ceriodaphnia dubia	LC50	>10 mg/L Fresh water	Acute	48 hours
	Fish - Ochorhyncus mykiss	LC50	1.3 mg/L	Acute	96 hours
	Fish - Oncorhynchus mykiss	LC50	167 ppb Fresh water	Acute	96 hours

Conclusion / Summary — NDA

12.2 Persistence and Biodegradability — NDA

12.3 Bioaccumulative Potential — NDA

12.4 Mobility in Soil — NDA

12.5 Results of PBT & vPvT Assessment — N/A

12.6 Other Adverse Effects — No known significant effects or critical hazards

12.7 Additional information

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

No other information available

SECTION 13. Disposal Considerations

13.1 Waste Treatment Methods

- Recovery operations: Treat as SECTION 6: Accidental Release Measures
- Disposal operations: Product - dispose at approved waste collection sites as controlled waste
- Disposal of packaging: Plastic 5L screw cap container for controlled waste disposal
- Waste code number: Product: 08 02 01
  Packaging, always has remnants: 15 01 02
- Special precautions for the disposal method

  Ensure substances or mixtures are not mixed with other materials and if held in the same outer container with other materials all are in separate sealed containers within the outer container
- NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

SECTION 14. Transport Information

ADR	IMDG	IATA	ADN	RID
14.1 UN Number				
Not regulated	Not regulated	Not regulated	N/A	Not regulated
14.2 UN proper shipping name				
N/A	N/A	N/A	N/A	N/A
14.3 Transport hazard class(es)				
N/A	N/A	N/A	N/A	N/A
14.4 Packing group				
N/A	N/A	N/A	N/A	N/A
14.5 Environmental hazards				
No	No	No	N/A	No
No supplementary information available				

14.6 Special Precautions for User

Always transport in closed containers that secure against damage, Ensure that persons transporting the product know what to do in the event of an accident or spillage

- Overland transport: N/A
- Transport by sea: N/A
- Air transport: N/A
- Inland waterway transport: N/A
- Rail transport: N/A

14.7 Transport in Bulk According to: **Transport in bulk is not available / offered**

(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

Contains no REACH substances with Annex XVII restrictions

Contains no REACH Annex XIV substances

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

SECTION 16. Other Information

16.1 Basis of this SDS The data reported here are based on the manufacturer's SDS which is based on information contained in the safety data sheets of the raw materials that make up the product

16.2 Changes Compared to the Previous Version

Date	Replaces	Sections	Item	Change	Comment
12/12/19	1.0	All	All	See Comment	Full re-write, read the entire document

16.3 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

16.4 Abbreviations & Acronyms

CLP: EU Regulation 1272/2008: Classification, Labelling & packaging of chemical substances
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level
EC50: Concentration giving response half way between baseline and maximum
EINECS: European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substance number
EUH statement: CLP-specific Hazard statement
HSE: (UK) Health & Safety Executive
IBC Code: International Building Code
IC50: half maximal Inhibitory Concentration
LD50: Lethal dose, 50% affected
MARPOL: International Convention for the Prevention of Pollution from Ships
N/A: Not Applicable
NDA: No Data Available
PBT: Persistent, Bioaccumulative and Toxic substances
vPvB: Very Persistent and very Bioaccumulative substances
PNEC: Predicted No-Effect Concentration

Newton House, 17-20 Sovereign Way, Tonbridge, Kent, TN9 1RH
T: +44 (0)1732 360095 **W:** www.newtonwaterproofing.co.uk **E:** info@newtonwaterproofing.co.uk

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

16.5 Procedure used to derive the Classification according to Regulation (EC) No. 1272/2008

Classification	Justification
Not classified	

16.6 Full text of H and EUH statements

H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe eye burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

16.7 Full text of Classifications (CLP / GHS)

Acute Tox. 3, H301	Acute Toxicity (oral) - Category 3
Acute Tox. 3, H311	Acute Toxicity (dermal) - Category 3
Acute Tox. 3, H331	Acute Toxicity (inhalation) - Category 3
Acute Tox. 4, H302	Acute Toxicity (oral) - Category 4
Aquatic Acute 1, H400	Acute Aquatic Hazard - Category 1
Aquatic Chronic 1, H410	Long Term Aquatic Hazard - Category 1
Eye Dam. 1, H318	Serious Eye Damage / Eye Irritation - Category 1
Skin Corr. 1B, H314	Skin Corrosion / Irritation - Category 1B
Skin Irrit. 2, H315	Skin Corrosion / Irritation - Category 2
Skin Sens. 1, H317	Skin Sensitisation - Category 1

16.8 Training advice

Obtain special instructions and read the 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

16.9 DISCLAIMER

Persons using the information contained here must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where these purposes are other than as specifically recommended in this Safety Data Sheet and in the Technical Data Sheet, then the user uses the product at their own risk

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 is accuracy, reliability or completeness. It is the users responsibility to satisfy themselves as to the suitability of such information for their own particular use

Newton House, 17-20 Sovereign Way, Tonbridge, Kent, TN9 1RH
T: +44 (0)1732 360095 **W:** www.newtonwaterproofing.co.uk **E:** info@newtonwaterproofing.co.uk

System 100

NEWTON 103-S Part B

High Performance Liquid Waterproofing Membrane

Rev 2.0 - 12 December 2019 PRODUCT CODE - 103-S

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

Product Identifier

- Product form: Mixture
- Product name: Newton 103-S
- Product codes: 103-S

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture: Professional use only
  Internal and external waterproofing
- 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 SDS
  The full list of Hazard Phrases & Precautionary Statements stated throughout this SDS

2.1 Classification of the Substance or Mixture

- Classification under Regulation (EC) No. 1272/2008 (CLP)

Skin Irrit. 2	H315
Skin Sens. 1	H317
Eye Dam. 1,	H318
STOT SE 3	H335

Full text of hazard classes and H-statements: see SECTION 16

- Adverse physicochemical, human health and environmental effects

  This product is classified as hazardous according to Regulation (EC) 1272/2008 as amended

2.2 Label Elements

- Signal words (CLP): Danger
- Hazard pictograms (CLP):

GHS05 GHS07

- Hazardous ingredients: Cement, Portland cement, chemicals
- Hazard statements (CLP): H318 Causes serious eye damage
  H315 Causes skin irritation

H317 May cause an allergic skin reaction
H335 May cause respiratory irritation

- Precautionary statements (CLP)

P260 Do not breathe dust, fume, gas, mist, spray, vapours
P271 Only use outdoors or in a well-ventilated area
P280 Wear protective gloves / clothing and eye / face protection
P302+P352 IF ON SKIN: Wash with plenty of water
P303+P361 +P353 IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water Wash clothing before reuse
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P333+P313 If skin irritation or rash occurs: Get medical advice / attention
P405 Store locked up
P501 Dispose of contents / container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

- Other

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 — No additional information available
- Other Hazards — NDA
- Other information — Classification and labelling have been made on the basis of safety data sheets of the 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	EC No.	EC Index-No	REACH Registration Number	%	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Crystalline silica	14808-60-7	238-878-4			≥25 - ≤50	Not classified
Cement, Portland, chemicals	65997-15-1	266-043-4			≥25 - ≤50	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT SE 3, H335
Glass, oxide, chemicals	65997-17-3	266-046-0			≤3	Not classified
Calcium dihydroxide	1305-62-0	215-137-3			≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412

NB — Refer to SECTION 8 for Personal Protection / Exposure Controls

Refer to SECTION 16 for the full text of 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 unconscious, place in recovery position and seek medical advice. If exposed or concerned get medical advice / attention. If you feel unwell, 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 medial advice
- Skin contact: Remove contaminated clothing and shoes. Gently remove all traces of product and wash with plenty of soap and water. Continue to rinse for at least 10 minutes. If skin irritation or rash occurs seek medial advice / attention. Do NOT use solvents or thinners
- Eye contact: Do not rub. Immediately rinse eyes cautiously with plenty of water for at least 15 minutes holding the eyelids open. Remove contact lenses if present and easy to do so, then continue to rinse cautiously for 15 minutes. Seek immediate medical attention
- Ingestion: If swallowed, seek medical advice immediately and show the container or label and this SDS. Keep the person warm and at rest. Do NOT induce vomiting. If vomiting occurs, the head should be kept forward and low so vomit does not enter the lungs.
- Inhalation: Ventilate the area. Remove person from the contaminated place to rest in fresh air and keep comfortable and breathing. Assure fresh air breathing. Loosen tight clothing such as collar, tie, belt or waistband. If you feel unwell seek medical advice. Call a doctor or poison centre if you feel unwell
- **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. If suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wear gloves to remove contaminated clothing, see SECTION 13 for washing or disposal

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- Skin contact: Adverse symptoms may include pain or irritation, redness, blistering
- Eye contact: Adverse symptoms may include pain, watering, redness
- Ingestion: Adverse symptoms may include stomach pains
- Inhalation: Adverse symptoms may include respiratory tract irritation, coughing
- Delayed / immediate effects: NDA

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Immediate / special treatment: No specific treatment. Treat symptomatically. Contact poison treatment specialist if large quantities have been ingested or inhaled

SECTION 5. Fire-Fighting Measures

5.1 Extinguishing Media

Use an extinguishing media suitable for the surrounding fire

Unsuitable extinguishing media: None known

5.2 Special Hazards Arising from the Material

No specific fire or explosion hazard

Decomposition products may include: carbon dioxide, carbon monoxide, sulphur oxides, metal oxide / oxides

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

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 respiratory protection

Do not enter the area without wearing appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. Clothing, including helmets, protective boots and gloves, conforming to EN 469 will provide a basic level of protection for chemical incidents

SECTION 6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- **General measures**

Do not attempt to take action without wearing suitable personal protection, refer to SECTION 8.2 of the SDS

Ensure adequate ventilation

- Non-emergency personnel

Evacuate unnecessary personnel

Do not touch or walk through the spilled material. Ventilate spillage area. Do not breathe dust / fumes/ gas / vapours / mist / spray. Avoid contact with skin and eyes

- 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

Do not attempt to take action without suitable protective equipment. Equip clean-up crew with proper protection, see SECTION 8 'Exposure controls / personal protection'

Ensure adequate ventilation, including forced ventilation if in an internal space and necessary, and 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 container, label this with the contents

Avoid inhalation of vapours, wear respiratory protection as SECTION 8.2

6.2 Environmental Precautions

Prevent the product from contact with soil and from entering drains, sewers or watercourses (refer to SECTION 11). Contain the spillage using bunding

Alert the Environmental 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 qualified persons familiar with the specific product. Approach from upwind against dust inhalation

Stop the leak if it is safe to do so. Avoid dust generation

Large spillages should be contained by bunding using absorbent materials and carefully transferred into sealable impervious containers. Remnants

from large spillages and small spillages should be carefully swept up without dust generation and transferred into these containers. Using a vacuum with a HEPA filter will reduce dust dispersal

All collected spillages to be retained within and fully collected up into sealable impervious waste container(s), label these with the contents

If used, all contaminated bunding, including all suspected of being contaminated, to be collected up and transferred to these waste containers

All containers to be labelled and held for disposal as SECTION 13

6.4 Reference to Other SECTIONS

Sections 1 (emergency contact), 8 (Personal Protection/Exposure Controls), 12 (Ecological Information) and 13 (Disposal Consideration) of the SDS

SECTION 7. Handling and Storage

The information in the SECTION includes generic advice and guidance. The list of 'Relevant identified uses' in SECTION 1 should be consulted for any available use-specific information provided here and in SECTION 8

7.1 Precautions for Safe Handling

a. Safe handling

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product

Wear protective equipment as required by use- see SECTION 8

Do not get in eyes, on skin or on clothing - see SECTION 8 for the protection of work clothing. Do not ingest. Obtain special instructions before use. Do not handle or use until all safety precautions have been read and understood.

Only use outdoors or in well ventilated areas, wear appropriate respirator when ventilation is inadequate. Keep in original container, kept tightly closed when not in use

Do not breathe vapours, aerosols or gases

b. Hygiene measures

Do not eat, drink or smoke when handling. Wash hands and other exposed areas with mild soap and water after using the material and remove contaminated clothing and protective equipment before entering areas where food and drink are consumed and when leaving the work site. Wash hands and face before eating, drinking, smoking and using the toilet

Contaminated work clothing should securely bagged before being allowed out of the work site. See SECTION 13 for the protection of work clothing and the washing or disposal of contaminated work clothing and boots

c. 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

d. 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, storage and when at the work site

e. 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 when mixing and dispensing. 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, keep cool and away from direct sunlight. Only store in original containers. If transferred to another container include the Batch Number and Manufacturing or Expiry Date on the new label. Keep container tightly closed. The floor of the storage area to be

impermeable to prevent the escape of spillage

b. Maximum storage period

Maximum storage / use period: 12 months at 20°C (68°F), refer to the container label for the Date of Manufacture, Expiry Date or Best Before Date

Use of the stock should be by date rotation, using the oldest dates first. Containers past their Best Before date should be removed for disposal according to SECTION 13 of the SDS

c. 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 these movements

d. Storage with other substances and mixtures

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

e. 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

f. Other considerations

No other data available

7.3 Specific End Use(es)

Part B of a 2-Part liquid applied cementitious waterproofing membrane. Refer to the Technical Data Sheet for further information

SECTION 8. Personal Protection/Exposure Control

8.1 Control Parameters

Workplace Exposure Limits (WEL)

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

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

Substance & CAS	Long-term exposure limit (8hr TWA reference period)		Short-term exposure limit (15 minute reference period)		Comments	Source
	ppm	mg / m³	ppm	mg / m³	The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to substances identified in IOELV Directives	
Crystalline silica - respirable						
14808-60-7	-	0.1	-	-	-	EH40
Cement, Portland, chemicals - respirable & inhalable dust						
65997-15-1	- -	Inhal 10 Respir 4	- -	- -	- -	EH40
Glass, oxide, chemicals						
65997-17-3	-	5	-	-	-	EH40
Calcium dihydroxide						
1305-62-0	- -	5 1	- -	- 4	- Respirable fraction	EH40

Recommended monitoring procedures	Reference should be made to monitoring standards, such as: EN 689 Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy EN 14042 Workplace atmospheres - Guide for the application and use for the assessment of exposure to chemical and biological agents EN 482 Workplace atmospheres - General requirement for the performance of procedures for the measurement of chemical agents Reference to national guidance documents for methods for the determination of hazardous substances will also be required
DNELs / DMELs	No DNELs / DMELs available
PNECs	No PNECs available

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, individual eye wash ampoules and safety shower
d. Against contamination	Refer to SECTION 15.1 for any 'Other Regulations' and the REACH Annex XVII statements there Only mix the 2 Parts of the product on impervious protective sheeting and with this laid at the area(s) where the mixed product is to be applied, against splashes onto the person(s) performing this task, any other persons and onto the surrounding areas: • When opening each Part and when progressively mixing them together • When using the power mixer / paddle off a drill, include erecting barrier around if necessary to stop splashes off the protective sheeting onto other persons, structures, ground, etc • When applying the mixed product to the area(s) to be treated • The person(s) performing this to wear disposable overshoes over their safety work boots when working off the protective sheeting against walking contamination onto the surrounding area • 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, smoking, using the toilet and when leaving the work site for natural breaks, break times and at end of day. Remove contaminated clothing, see SECTION 13 for the washing or disposal of contaminated clothing

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 disposable overshoes. EN ISO 13688
b. Eye / face protection	Tight fitting safety goggles, safety glasses with side protection or face visor EN166
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
		Barrier cream applied to clean hands before using the product
	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: Vitron® or Nitrile to EN 374
	Penetration time of gloves	Breakthrough time of the glove material - prolonged use > 8 hours
		- brief contact > 30 minutes
	(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	Mouth & nose filter face mask to EN149:2001.
		In the case of inadequate ventilation wear an appropriate gas filter (i.e. type A according to EN 14387) is worn
		Mist formation; wear protection as for inadequate ventilation
e.	Thermal hazards	NDA
f.	Environmental exposure measures	Avoid release to the environment
		Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental legislation. Apply process engineering modifications, ventilation filters, etc. if required

SECTION 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

• Appearance	(i) Form	Solid, powder
	(ii) Colour	Grey
• Odour		Odourless
• Odour threshold		NDA
• pH		NDA
• Melting point/range °C		N/A
• Freezing point/range °C		NDA
• Initial boiling point/range °C		NDA
• Flash point/self-ignition °C		Closed cup: 101°C
• Evaporation rate		NDA
• Flammability (solid, gas)		NDA
• Flammability limits, lower %		NDA

Newton House, 17-20 Sovereign Way, Tonbridge, Kent, TN9 1RH
T: +44 (0)1732 360095 **W:** www.newtonwaterproofing.co.uk **E:** info@newtonwaterproofing.co.uk

• Flammability limits, upper %	NDA
• Auto flammability °C	NDA
• Decomposition temperature	NDA
• Explosive properties	NDA
• Explosive limits	NDA
• Oxidising properties	NDA
• Vapour pressure	NDA
• Relative vapour density at 20°C	NDA
• Relative density	2.58
• Specific weight	NDA
• Solubility in water	In cold water
• Partition coefficient n-octanol/water	NDA
• Also soluble in	NDA
• Viscosity, kinematic	999.1 mm^2/s (room temperature)
• 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	No specific test data related to reactivity available for this product or its ingredients
10.2 Chemical Stability	The product is stable 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	Under normal conditions of storage and use, hazardous reactions will not occur
10.4 Conditions to Avoid	No specific data
10.5 Incompatible Materials to Avoid	No specific data
10.6 Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects

• Acute toxicity	Harmful if inhaled 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

Substance	Route	Test	Species	Value
CAS 1305-62-0 Calcium dihydroxide	Oral	LD50	Rat	7340 mg/kg

- Conclusion: NDA

- Irritation / Corrosion - Hazardous ingredients

Substance	Result	Score	Species	Exposure
CAS 1305-62-0 Calcium dihydroxide	Eyes - severe irritant	-	Rabbit	10 milligrams

- Conclusion: NDA

- Specific target organ toxicity - single exposure (STOT SE)

Substance	Category	Route of exposure	Target organs
Cement, Portland, chemicals	Category 3	Not applicable	Respiratory tract irritation
Calcium dihydroxide	Category 3	Not applicable	Respiratory tract irritation

- Other hazards

Hazard	Negative Symptoms
Respiratory hazard / inhalation	May cause respiratory irritation if inhaled
Serious eye damage / irritation	Causes serious eye damage
Skin sensitisation	May cause an allergic skin reaction
Skin corrosion / irritation	Causes skin irritation
STOT single exposure	May cause respiratory irritation

Hazard	Basis
Acute toxicity - oral	NDA
Acute toxicity - dermal	NDA
Acute toxicity - inhalation	NDA
Ingestion	NDA
Carcinogenicity	NDA
Germ cell mutagenicity	NDA
Reproductive toxicity	NDA
Teratogenicity	NDA
Aspiration hazard	Not classified
STOT repeated exposure	NDA

Viscosity, kinematic 999.1 mm^2/s

- Potential acute health effects

Eye contact - Causes serious eye damage
Inhalation - May cause respiratory irritation
Skin contact - Causes skin irritation. May cause an allergic reaction
Ingestion - Irritating to mouth, throat and stomach

- Symptoms related to the physical, chemical and toxicological characteristics

Eye contact - Adverse symptoms amy include pain, watering, redness
Inhalation - Adverse symptoms may include respiratory tract irritation, coughing
Skin contact - Adverse symptoms may include pain or irritation, redness, blistering may occur
Ingestion - Adverse symptoms may include stomach pains

- Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short-term exposure
Potential immediate effects - NDA
Potential delayed effects - NDA

Long-term exposure
Potential immediate effects - NDA
Potential delayed effects - NDA

Potential chronic health effects NDA

Conclusion	NDA	
	General	- Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels
	Carcinogenicity	- No known significant effects of critical hazard
	Mutagenicity	- No known significant effects of critical hazard
	Teratogenicity	- No known significant effects of critical hazard
	Developmental effects	- No known significant effects of critical hazards
	Fertility effects	- No known significant effects of critical hazard
Other information	NDA	
	The product was not tested. The data reported here are based on the manufacturers' SDS which is based on information contained in the safety data sheets of the raw materials that make up the product	

SECTION 12. Ecological Information

12.1 Toxicity

Environment

Substance	Species	Test	Result	Exposure
Calcium dihydroxide	Fish - Clarias gariepinus - Fingerling	LC50	33884.4 µg/L Fresh water Acute	96 hours

Conclusion / summary NDA

12.2 Persistence and Biodegradability NDA

12.3 Bioaccumulative Potential NDA

12.4 Mobility in Soil NDA

12.5 Results of PBT & vPvT Assessment N/A

12.6 Other Adverse Effects No known significant effects or critical hazards

Do not release to the environment

12.7 Additional information The product was not tested. The data reported here are based on the manufacturers' SDS which is based on information contained in the safety data sheets of the raw materials that make up the product

No other information available

SECTION 13. Disposal Considerations

13.1 Waste Treatment Methods

- Recovery operations: Treat as SECTION 6: Accidental Release Measures
- Disposal operations: Product - dispose at approved waste collection sites as controlled waste
- Disposal of packaging: Paper bag - always has remnants, dispose of a controlled waste
- Waste code number: Part B and wet & solidified mixed Part A+Part B: 17 01 06*
  Packaging: 15 01 10*
- Special precautions for the disposal method

  Ensure substances or mixtures are not mixed with other materials and if held in the same outer container with other materials all are in separate sealed containers within the outer container
- NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

SECTION 14. Transport Information

ADR	IMDG	IATA	ADN	RID
14.1 UN Number				
Not regulated	Not regulated	Not regulated	NDA	Not regulated
14.2 UN proper shipping name				
-	-	-	NDA	-
14.3 Transport hazard class(es)				
-	-	-	NDA	-
14.4 Packing group				
-	-	-	NDA	-
14.5 Environmental hazards				
No	No	No	NDA	No
No supplementary information available IMDG Code Segregation Group: N/A				

14.6 Special Precautions for User Always transport in closed containers that secure against damage, Ensure that persons transporting the product know what to do in the event of an accident or spillage

- Overland transport N/A
- Transport by sea N/A
- Air transport N/A
- Inland waterway transport N/A
- Rail transport N/A

14.7 Transport in Bulk According to: **Transport in bulk in not available / offered**

(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

Contains no substances with REACH Annex XVII restrictions

Contains no REACH Annex XIV substances

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

SECTION 16. Other Information

16.1 Basis of this SDS The data reported here are based on the manufacturer's SDS which is based on information contained in the safety data sheets of the raw materials that make up the product

16.2 Changes Compared to the Previous Version

Date	Replaces	Sections	Item	Change	Comment
12/12/19	1.0	All	All	See Comment	This is a full rewrite, read the entire document

16.3 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

16.4 Abbreviations & Acronyms

CLP: EU Regulation 1272/2008: Classification, Labelling & packaging of chemical substances
HSE: (UK) Health & Safety Executive
IBC Code: International Building Code
LD50: Lethal dose, 50% affected
MARPOL: International Convention for the Prevention of Pollution from Ships
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
SDS: Safety Data Sheet
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

16.5 Procedure used to derive the Classification according to Regulation (EC) No. 1272/2008

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method

16.6 Full text of H and EUH statements

H315	Causes skin irritation
H317	May cause an allergic reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects

Newton House, 17-20 Sovereign Way, Tonbridge, Kent, TN9 1RH
T: +44 (0)1732 360095 **W:** www.newtonwaterproofing.co.uk **E:** info@newtonwaterproofing.co.uk

16.7 Full text of Classifications (CLP / GHS)

Aquatic Chronic 3, H412	Long Term Aquatic Hazard - Category 3
Eye Dam. 1, H318	Serious Eye Damage / Eye Irritation - Category 1
Eye Irrit. 2, H319	Serious eye damage / irritation, Category 2
Skin Irrit. 2, H315	Skin Corrosion / Irritation - Category 2
Skin Sens. 1, H317	Skin Sensitisation - Category 1
STOT SE 3, H335	Specific target organ toxicity (single exposure) - respiratory tract, Category 3

16.8 Training advice

Obtain special instructions and read the 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

16.9 DISCLAIMER

Persons using the information contained here must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where these purposes are other than as specifically recommended in this Safety Data Sheet and in the Technical Data Sheet, then the user uses the product at their own risk

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 is accuracy, reliability or completeness. It is the users responsibility to satisfy themselves as to the suitability of such information for their own particular use

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