System 300

NEWTON 324-SR Part A: Resin

Flexible Acrylic-Rubber Injection Resin

Rev 1.0 - 19th March 2019

PRODUCT CODE - 324-SR

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

Product Identifier

- Product form: Mixture
- Product name: Newton 324-SR Resin
- Product codes: 324-SR

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture: Professional use only
  Resin constituent in an injection resin for 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
  Eye Irrit. 2 H319
  Full text of hazard classes and H-statements: see SECTION 16
- Adverse physicochemical, human health and environmental effects
  NDA

2.2 Label Elements

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

GHS07

- Hazard statements (CLP)
  H315 Cause skin irritation
  H319 Causes serious eye irritation
- Precautionary statements (CLP)
  P261 Avoid breathing dust, fume, gas, spray, mist, vapours
  P264 Wash hands, forearms and face thoroughly after handling

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 (or shower)
P305+P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
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)
Magnesiumacrylate	5698-98-6	227-177-9			15-25	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Polyethyleneglycoldimethacrylate	25852-47-5				0.1-2.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319

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 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. Gently remove all traces of product and wash with mild soap and water, followed a warm water rinse. If skin irritation or rash occurs seek medial advice / attention
- 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. Obtain medical attention if pain, irritation, blinking or redness persists
• Ingestion	Wash out mouth with water. Do NOT induce vomiting. Get emergency medical attention. 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. Call a doctor or poison centre if you feel unwell
• 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. 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	May cause moderate irritation
• Eye contact	May cause slight irritation
• Ingestion	May be harmful if swallowed
• Inhalation	May cause respiratory irritation
• Delayed / immediate effects	NDA

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

• Immediate / special treatment	No specific treatment. Treat symptomatically

SECTION 5. Fire-Fighting Measures

5.1 Extinguishing Media None necessary

Unsuitable extinguishing media: No special recommendation

5.2 Special Hazards Arising from the Material

Fire hazard: Combustible after evaporation of all water

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

Do not enter the area without wearing proper protective equipment, including respiratory protection

Do not attempt to take action without suitable protective equipment. Self contained breathing apparatus. Complete protective clothing

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
	Prevent from entering sewers, basements, workpits and any other place

	where its accumulation can be dangerous
	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 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
	Stop the leak 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 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	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. 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
	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 not be 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. 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: Refer to the 'Best Before' date on the container label

Use of the stock should be by Best Before 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 especially from direct sunlight (UV) and high temperatures

Protect from freezing, frost and heat. 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 including any incompatibles

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

Incompatibles: Reactes with reducin agents, peroxides and other radical forming agents, certain metals

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 an injection resin for waterproofing. 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	
CAS 5698-98-6 Magnesiumacrylate	**Not on the EH40 WEL Table**					HSE
CAS 25852-47-5 Polyethyleneglycoldimethacrylate	**Not on the EH40 WEL Table**					

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 — Part A of a multi-part product, stirring is. Work and dispense off impervious protective sheeting against splashes onto the person(s) performing this task, any other persons and onto the surrounding areas:
- 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 application is done, dispose of 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 disposable overshoes

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
	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: 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	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
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	Violet
• Odour		Charactistice odour
• Odour threshold		NDA
• pH		6.5-8
• Melting point/range °C		NDA
• Freezing point/range °C		NDA
• Initial boiling point/range °C		NDA
• Flash point/self-ignition °C		NDA
• 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	1.15 g/ml
• Specific weight	NDA
• Solubility in water	Soluble material / quickly disperses in water
• Partition coefficient n-octanol/water	NDA
• Also soluble in	NDA
• Viscosity, kinematic	16.552 mm^2/s
• Viscosity, dynamic	19 mPa.s
• 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	None
10.2 Chemical Stability	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	In the presence of radical forming substances (e.g. peroxides, reducing substances and / or metal ions), a polymerisation with heat dissipation is possible Decomposition may occur on exposure to conditions or materials listed below
10.4 Conditions to Avoid	High temperature,. Moisture
10.5 Incompatible Materials to Avoid	Radical forming substances, reducing agents, metal ions
10.6 Hazardous Decomposition Products	NDA. No decomposition occurs if stired, used and applied as directed by teh Technical Data Sheet

SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects

• Acute toxicity	Acute toxicity (oral):	Not classified
	Acute toxicity (dermal):	Not classified
	Acute toxicity (inhalation):	Not classified
	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	NDA	

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Relevant hazards for product

Serious eye damage / irritation	Causes serious eye irritation. pH 6.5-8
Skin corrosion / irritation	Causes skin irritation, pH 6.5-8
STOT single exposure	May cause respiratory irritation

Other hazards

Hazard	Basis
Acute toxicity - oral	Not classified
Acute toxicity - dermal	Not classified
Acute toxicity - inhalation	Not classified
Ingestion	NDA
Respiratory hazard / inhalation	Not classified
Skin sensitisation	Not classified
Carcinogenicity	Not classified
Germ cell mutagenicity	Not classified
Reproductive toxicity	Not classified
STOT single exposure	Not classified
STOT repeated exposure	Not classified
Aspiration hazard	Not classified

Viscosity, kinematic 16.522 mm^2/s

Other 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

SECTION 12. Ecological Information

12.1 Toxicity

Environment Not considered harmful to aquatic organisms nor to cause long-term adverse effects to the environment

Aquatic toxicity Acute toxicity: Not classified
Chronic toxicity: Not classified

12.2 Persistence and Biodegradability No additional information available

12.3 Bioaccumulative Potential No additional information available

12.4 Mobility in Soil No additional information available

12.5 Results of PBT & vPvT Assessment ECHA / REACH Dossier: the substance is not PBT / vPvB

12.6 Other Adverse Effects No additional information available

Avoid 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 Dispose at approved waste collection sites as controlled waste

- Disposal of packaging — 25kg plastic jerry can with screw cap so cannot access internally to clean, dispose to controlled waste disposal and including recycling if possible by them
- Waste code number — 17 09 03*: Part A, mixed Parts and wet & solidified mixed product (all Parts):
  17 02 04*: Packaging Plastic drum with Part A remnants
- 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				
N/A	N/A	N/A	N/A	N/A
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				
N/A	N/A	N/A	N/A	N/A
Dangerous to the environment: No Marine pollutant: No No supplementary information available				

4.6 Special Precautions for User

- 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:

(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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No. 1907/2006:	
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No. 1272/2008	Magnesiumacrylate
3(b). Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No. 1272/2008: Hazard classes - 3.1 to 3.6, - 3.7 adverse effects on sexual function and fertility or on development, - 3.8 effects other than narcotic effects, - 3.9 and 3.10	Magnesiumacrylate

Contains no substances on the REACH candidate list

Contains no REACH Annex XIV substance

Directive 2012/18/EU (SEVESO III)

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
19/03/19	N/A				This is the 1st issue, 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

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16.5 Full text of H and EUH statements

Eye Irrit. 2	Serious eye damage / irritation, Category 2
Skin Irrit. 2	Skin corrosion / irritation, Category 2
H315	Causes skin irritation
H319	Causes serious eye irritation

16.6 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

16.7 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 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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System 300

NEWTON 324-SR Part B: Additive

Flexible Acrylic-Rubber Injection Resin

Rev 1.0 - 19th March 2019

PRODUCT CODE - 324-SR

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

Product Identifier

- Product form: Mixture
- Product name: Newton 324-SR Additive
- Product codes: 324-SR Additive

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture: Professional use only
  Additive constituent in an injection resin for waterproofing
- Uses advised against: Not for any other use

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  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)

Acute Tox. 4 (Oral)	H302
Acute Tox. 4,	H312
Skin Corr. 1B,	H314
Skin Irrit. 2	H315
Eye Dam. 1,	H318

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

- Adverse physicochemical, human health and environmental effects

  Harmful in contact with skin. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage.

2.2 Label Elements

- Hazard pictograms (CLP)

GHS05 GHS07

- Signal words (CLP): Danger
- Hazardous ingredients: 2-dimethylaminoethyl methacrylate
- Hazard statements (CLP): H302: Harmful if swallowed
  H312: Harmful in contact with skin

H314: Causes severe skin burns and eye damage
H317: May cause an allergic skin reaction
H318: Causes serious eye damage

- Precautionary statements (CLP)

P260 Do not breathe dust, mist, fume, gas, spray, vapours
P280 Wear protective gloves / clothing and eye / face protection
P301+P310 IF SWALLOWED: Immediately call a doctor / poison centre
P303+P361 +P353 IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water / shower
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
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: ECHA: the substance is not PBT / vPvB
- 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

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3.2 Mixture

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Hazardous Substances

Chemical name	CAS	EC No.	EC Index-No	REACH Registration Number	%	Classification according to Regulation (EC) No. 1272/2008 (CLP)
2-dimethylaminoethyl methacrylate	2867-47-2	220-688-8	607-132-00-3		≤100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318

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: Call a doctor immediately. Take this SDS with you when seeking medial advice

Never give anything by mouth to an unconscious person. 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
• Skin contact	Immediately remove contaminated clothing. Gently remove all traces of product and wash with plenty of soap and water. Rinse skin with water / shower. Call a doctor immediately
• 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. Call a doctor immediately
• Ingestion	Obtain emergency medical attention. Wash out mouth with water. 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. Call a doctor or poison centre if you feel unwell
• 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. 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	May cause moderate irritation. Burns. May cause an allergic skin reaction
• Eye contact	May cause slight irritation. Serious damage to eyes
• Ingestion	May be harmful if swallowed. Burns
• Inhalation	May cause respiratory irritation
• Delayed / immediate effects	NDA

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

• Immediate / special treatment	No specific treatment. Treat symptomatically

SECTION 5. Fire-Fighting Measures

5.1 Extinguishing Media

Powder, alcohol-resistant foam, carbon dioxide, dry power, water spray, foam

Unsuitable extinguishing media: Heavy water jet, carbon dioxide

5.2 Special Hazards Arising from the Material

Carbon monoxide, carbon dioxide

5.3 Advice for Firefighters

At temperatures exceeding 30°C it can polymerize with intense heat release

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 attempt to take action without suitable protective equipment. Self contained breathing apparatus. Complete protective clothing

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

Prevent from entering sewers, basements, workpits and any other place where its accumulation can be dangerous

Allow no open flames, sparks, smoking or any other sources of ignition

Do not use clean-up tools, etc. than may cause sparks

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 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

Stop the leak 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 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

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. 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

No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources

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 not be 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 out of direct sunlight

Do not store or allow to be affected by temperatures exceeding 30°C, can polymerize with intense heat release

Only store in original containers. Keep container tightly closed. Do not store in corrodible metal

If for any reason Part B is transferred into another container, DO NOT FILL TO THE TOP. Only fill to 90% of the container capacity as air is required for stabilisation

The floor of the storage area to be impermeable to prevent the escape of spillage

b. Maximum storage period

Maximum storage / use period: Refer to the 'Best Before' date on the container label

Use of the stock should be by Best Before 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 especially from direct sunlight and high temperatures

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Protect from heat. 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 including any incompatibles

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

Incompatibles: Bases, strong acids, oxidising agents

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 an injection resin for waterproofing. 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	
2-dimethylaminoethyl methacrylate						
2867-47-2	Not on the EH40 Table					HSE

Derived No Effect Level (DNEL) CAS 2867-47-2 2-dimethylaminoethyl methacrylate				
Route of Exposure	**Acute Effects Local**	**Acute Effects Systemic**	**Long Term Effects Local**	**Long Term Effects Systemic**
WORKERS				
Inhalation	321 mg/m³	-	27 mg/m³	27 mg/m³
Dermal	-	10 mg/kg bw/day	-	10 mg/kg bw/day
Eyes	Local Effects: High hazard (no threshold derived)			

GENERAL POPULATION				
Inhalation			4 mg/m^3	4 mg/m^3
Dermal	128.5 mg/cm^2			25 mg/kg bw/day
Oral	Low hazard (no threshold derived)			Low hazard (no threshold derived)
Eyes	High hazard (no threshold derived)			

Predicted No Effect Level (PNEC)		
Substance	**Environmental Protection Target**	**Value**
CAS 2867-47-2 2-dimethylaminoethyl methacrylate	Fresh water	0.087 mg/L
	Intermittent releases (fresh water)	0.191 mg/L
	Freshwater sediments	0.483 mg/kg sediment dw
	Marine water	0.009 mg/L
	Marine water sediments	0.048 mg/kg sediment dw
	Sewage treatment plant	210 mg/L
	Soil	0.0454 mg/kg soil dw
	REACH Conclusion: Classification according to Annex VI of Directive 67/548/EEC: no need for labelling 'environment'. GHS classification (GHS UN rev. 2, 2007): no need for labelling 'environment'.	

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 — Single-Part product, stirring is not required. Work and dispense off impervious protective sheeting against splashes onto the person(s) performing this task, any other persons and onto the surrounding areas:

- 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 application is done, dispose of 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 — Protective work clothing based on chemical resistance data and assessment of the local exposure potential (Type 4: liquid spray, Type 5: solids, Type 6: liquid splash)

Example: Impervious disposable 1-piece covering to body, legs and arms with closure at wrists and ankles, and disposable overshoes

b.	Eye / face protection	Tight fitting safety goggles, face visor if risk of splashing, 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
	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: Butyl Rubber conforming to EN 374
	Penetration time of gloves	Breakthrough time of the glove material > 8 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
		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
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, molecular weight 157 g/mol
	(ii) Colour	Light yellow, colourless
• Odour		Amine-like
• Odour threshold		NDA
• pH		8
• Melting point/range °C		-30°C
• Freezing point/range °C		N/A
• Initial boiling point/range °C		187°C
• Flash point/self-ignition °C		68°C
• Evaporation rate		NDA
• Flammability (solid, gas)		N/A
• Flammability limits, lower %		Non-flammable

• Flammability limits, upper %	NDA
• Auto flammability °C	NDA
• Decomposition temperature	NDA
• Explosive properties	NDA
• Explosive limits	NDA
• Oxidising properties	NDA
• Vapour pressure	0.58 hPa
• Relative vapour density at 20°C	NDA
• Relative density	NDA
• Density	0.93 g/cm^3
• Specific weight	NDA
• Solubility in water	Soluble in water. Water: 106.1 g/L
• Log Pow	NDA
• Partition coefficient n-octanol/water	NDA
• Also soluble in	NDA
• Viscosity, kinematic	1.47 mm^2/s
• 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	None
10.2 Chemical Stability	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	No dangerous reactions known under normal conditions of use
10.4 Conditions to Avoid	Do not store or allow to be affected by temperatures exceeding 30°C, can polymerize with intense heat release Containers must not be filled to more than 90% by volume as air is required for stabilisation
10.5 Incompatible Materials to Avoid	Bases, strong acids, oxidising agents
10.6 Hazardous Decomposition Products	Carbon dioxide, carbon monoxide, nitrogen oxides

SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects

• Acute toxicity	Acute toxicity (oral):	Harmful if swallowed
	Acute toxicity (dermal):	Harmful in contact with skin
	Acute toxicity (inhalation):	Not classified

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
2-dimethylaminoethyl methacrylate	Oral	LD50	Rat	> 2,000 mg/kg
	Dermal	LD50	Rat	> 2,000 mg/kg

Relevant hazards for product

Hazard	Negative Symptoms
Serious eye damage / irritation	Causes serious eye damage. pH 8
Skin corrosion / irritation	Causes severe skin burns and eye damage, pH 8
Respiratory hazard / inhalation	May cause an allergic reaction
Skin sensitisation	May cause an allergic skin reaction

Other hazards

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

Viscosity, kinematic 1.47 mm^2/s

Other 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

SECTION 12. Ecological Information

12.1 Toxicity

Environment NDA. Before neutralisation, the product may represent a danger to aquatic organisms

Aquatic toxicity Acute toxicity: Not classified
Chronic toxicity: Not classified

12.2 Persistence and Biodegradability No additional information available

12.3 Bioaccumulative Potential No additional information available

12.4 Mobility in Soil No additional information available

12.5 Results of PBT & vPvT Assessment No additional information available

ECHA / REACH Dossier: the substance is not PBT/vPvB

12.6 Other Adverse Effects No additional information available

Avoid 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: Dispose at approved waste collection sites as controlled waste
- Disposal of packaging: Plastic jerry can containing 0.09 kg of the material
- Waste code number: 17 09 03*: Part B (Additive), Part A+B+C and wet & solidified mixed Parts A+B+C+D+E
  17 02 04*: Packaging Plastic tub with Part CE remnants
- 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				
2522				
14.2 UN proper shipping name				
2-DIMETHYLAMINOETHYL METHACRYLATE				
Transport document description				
NU 2522 2-DIMETHYLAMINOETHYL METHACRYLATE, 6.1, II,				
14.3 Transport hazard class(es)				
6.1	6.1	6.1	6.1	6.1
				
14.4 Packing group				
III	III	III	III	III
14.5 Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6 Special precautions for users			
Overland transport	Classification code	ADR	T1
	Limited quantities	ADR	100ml
	Excepted quantities	ADR	E4
	Packing instructions	ADR	P001, IBC02
	Mixed packing provisions	ADR	MP15
	Portable tank and bulk container instructions	ADR	T7
	Portable tank and bulk container special provisions	ADR	TP2
	Tank code	ADR	L4BH
	Tank special provisions	ADR	TU15, TE19
	Vehicle for tank carriage		AT
	Transport category	ADR	2
	Special provisions for carriage - Loading, unloading and handling	ADR	CV13, CV28
	Special provisions for carriage - Operational	ADR	S9, S19
	Hazard identification number (Kemler No.)		69
	Orange plates		
	Tunnel restriction code	ADR	D/E
Transport by sea	Limited quantities	IMDG	100 ml
	Excepted quantities	IMDG	E4
	Packing instructions	IMDG	P001
	IBC packing instructions	IMDG	IBC02
	Tank instructions	IMDG	T7
	Tank special provisions	IMDG	TP2
	EmS-No.	Fire	F-A
	EmS-No.	Spillage	S-A
	Stowage category	IMDG	D
	MFAG-No	IATA	140
Transport by air	PCA Excepted quantities	IATA	E4
	PCA Limited quantities	IATA	Y641
	PCA Limited quantity maximum net quantity	IATA	1L
	PCA Packing instructions	IATA	654
	PCA Maximum net quantity	IATA	5L
	CAO Packing instructions	IATA	662
	CAO Maximum net quantity	IATA	60L
	ERG Code	IATA	6L
Inland waterway transport	Classification code	ADN	T1
	Special; provisions	ADN	82
	Limited quantities	ADN	100 ml
	Excepted quantities	ADN	E4
	Equipment required	ADN	PP, EP,TOX, A
	Number of blue cones / lights	ADN	2

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Rail transport	Classification code	RID	T1
	Limited quantities	RID	100 ml
	Excepted quantities	RID	E4
	Packing instructions	RID	P001, IBC02
	Mixed packing provisions	RID	MP15
	Portable tank and bulk container instructions	RID	T7
	Portable tank and bulk container special provisions	RID	TP2
	Tank codes for RID tanks	RID	L4BH
	Special provisions for RID tanks	RID	TU15
	Transport category	RID	2
	Special provisions for carriage - Loading, unloading and handling	RID	CW13, CW28, CW31
	Colis express (express parcels)	RID	CE5
	Hazard identification number	RID	69
14.7 Transport in bulk according to Annex 11 of Marpol and 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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No. 1907/2006:	
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No. 1272/2008	2-dimethylaminoethyl methacrylate
3(b). Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No. 1272/2008: Hazard classes - 3.1 to 3.6, - 3.7 adverse effects on sexual function and fertility or on development, - 3.8 effects other than narcotic effects, - 3.9 and 3.10	2-dimethylaminoethyl methacrylate

Contains no substances on the REACH candidate list

Contains no REACH Annex XIV substance

Directive 2012/18/EU (SEVESO III)

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
19/03/19	N/A				This is the 1st issue, 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

bw: body weight
CLP: EU Regulation 1272/2008: Classification, Labelling & packaging of chemical substances
HSE: (UK) Health & Safety Executive
LD50: Lethal dose, 50% affected
LC50: Lethal concentration, 50% affected
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 Full text of H statements

Acute Tox. 4 (Dermal)	Acute toxicity (Dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (Oral), Category 4
Eye Dam. 1	Serious eye damage / irritation, Category 1
Skin Corr. 1b	Skin corrosion / irritation, Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage

16.6 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

16.7 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 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.

System 300

NEWTON 324-SR Part C: Catalyst

Flexible Acrylic-Rubber Injection Resin

Rev 1.0 - 19th March 2019

PRODUCT CODE - 324-SR

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

Product Identifier

- Product form: Mixture
- Product name: Newton 324-SR Catalyst
- Product codes: 324-SR Catalyst

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture: Professional use only
  Catalyst constituent in an injection resin for 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
  Full text of hazard classes and H-statements: see SECTION 16
- Adverse physicochemical, human health and environmental effects
  To our knowledge, this product does not represent any particular risk, provided it is handles and used in accordance with good occupational hygiene and safety practice

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): N/A
- 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)
Triethanolamine	102-71-6	203-049-8			60-80	Not classified

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 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. 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
- 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. Obtain medical attention if pain, irritation, blinking or redness persists
- Ingestion — Wash out mouth with water. Do NOT induce vomiting. Get emergency medical attention. 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. Call a doctor or poison centre if you feel unwell
- 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. 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 — May cause moderate irritation
- Eye contact — May cause slight irritation
- Ingestion — May be harmful if swallowed
- Inhalation — May cause respiratory irritation
- Delayed / immediate effects — NDA

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Immediate / special treatment — No specific treatment. Treat symptomatically

SECTION 5. Fire-Fighting Measures

5.1 Extinguishing Media

Powder, alcohol-resistant foam, dry power, carbon dioxide, water spray, foam

Unsuitable extinguishing media: Do not use a heavy water stream

5.2 Special Hazards Arising from the Material

Toxic fumes may be released

Decomposition products: Carbon monoxide, carbon dioxide, nitrogen 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 attempt to take action without suitable protective equipment. Self contained breathing apparatus. Complete protective clothing

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 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

Stop the leak 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 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

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. 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

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 not be 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. 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: Refer to the 'Best Before' date on the container label

Use of the stock should be by Best Before 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 especially from direct sunlight (UV) and high temperatures

Protect from freezing, frost and heat. 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, including any incompatibles

Incompatibles: Bases, strong acids, oxidising agents

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 C of an injection resin for waterproofing. 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

The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to substances identified in IOELV Directives

Substance & CAS	Long-term exposure limit (8hr TWA reference period)		Short-term exposure limit (15 minute reference period)		Carc, Sen & Sk Comments	Source
	ppm	mg / m³	ppm	mg / m³		
Triethanolamine CAS 102-71-6	Not on the EH40 WEL Table					HSE

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	Part C of a muilt-part product, stirring is. Work and dispense off impervious protective sheeting against splashes onto the person(s) performing this task, any other persons and onto the surrounding areas: • 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 application is done, dispose of 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 disposable overshoes
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
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: 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	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
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	Clear
• Odour		Characteristic odour
• Odour threshold		NDA
• pH		NDA
• Melting point/range °C		N/A
• Freezing point/range °C		NDA
• Initial boiling point/range °C		> 30°C
• Flash point/self-ignition °C		NDA
• Evaporation rate		NDA
• Flammability (solid, gas)		N/A
• 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		1.11 g/ml
• Specific weight		NDA
• Solubility in water		NDA
• Partition coefficient n-octanol/water		NDA
• Also soluble in		NDA
• Viscosity, kinematic		19.82 mm^2/s
• Viscosity, dynamic		22 mPa.s
• 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

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SECTION 10. Stability and Reactivity

10.1 Reactivity None

10.2 Chemical Stability 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 No dangerous reactions known under normal conditions of use

10.4 Conditions to Avoid None known

10.5 Incompatible Materials to Avoid Bases, strong acids, oxidising agents

10.6 Hazardous Decomposition Products Carbon monoxide, carbon dioxide, nitrogen oxides

SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects

- Acute toxicity

Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified

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 NDA

Relevant hazards for product NDA

Other hazards

Hazard	Basis
Acute toxicity - oral	Not classified
Acute toxicity - dermal	Not classified
Acute toxicity - inhalation	Not classified
Ingestion	NDA
Serious eye damage / irritation	Not classified
Skin corrosion / irritation	Not classified
Respiratory hazard / inhalation	Not classified
Skin sensitisation	Not classified
Carcinogenicity	Not classified
Germ cell mutagenicity	Not classified
Reproductive toxicity	Not classified
STOT single exposure	Not classified
STOT repeated exposure	Not classified
Aspiration hazard	Not classified

Viscosity, kinematic 19.82 mm^2/s

Other 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

SECTION 12. Ecological Information

12.1 Toxicity

Environment / Ecology	NDA	
Aquatic toxicity	Acute toxicity:	Not classified
	Chronic toxicity:	Not classified

12.2 Persistence and Biodegradability No additional information available

12.3 Bioaccumulative Potential No additional information available

12.4 Mobility in Soil No additional information available

12.5 Results of PBT & vPvT Assessment No additional information available

12.6 Other Adverse Effects No additional information available

Avoid 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 — Dispose at approved waste collection sites as controlled waste
- Disposal of packaging — 1.25kg in plastic jerry can with screw cap so cannot access internally to clean, dispose to controlled waste disposal with recycling if done by them
- Waste code number — 17 09 03*: Part C, mixed Parts A+B+C and wet & solidified product (all Parts)
  17 02 04*: Packaging Plastic drum with Part A remnants
- 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				
N/A	N/A	N/A	N/A	N/A
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				
N/A	N/A	N/A	N/A	N/A
No supplementary information available				

4.6 Special Precautions for User

- 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:

(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 substances on the REACH candidate list
Contains no REACH Annex XIV substance
Directive 2012/18/EU (SEVESO III)

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
19/03/19	N/A				This is the 1st issue, 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

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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 Full text of H and EUH statements N/A

16.6 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

16.7 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 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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System 300

NEWTON 324-SR Part D: Strengthener

Flexible Acrylic-Rubber Injection Resin

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

Product Identifier

- Product form: Mixture
- Product name: Newton 324-SR Strengthener
- Product codes: 324-SR Strengthener

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture: Professional use only
  Strengthener constituent in an injection resin for 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. Full text of hazard classes and H-statements: see SECTION 16
- Adverse physicochemical, human health and environmental effects
  To our knowledge, this product does not represent any particular risk, provided it is handles and used in accordance with good occupational hygiene and safety practice

2.2 Label Elements

- Hazard statements: No H Classification labelling applicable
- Signal words (CLP): N/A
- Hazard pictograms (CLP): N/A
- Hazardous ingredients: EUH208: May produce an allergic reaction. Contains a mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2benzisothiazol-3-(2H)-one
- Hazard statements (CLP): N/A
- Precautionary statements (CLP): N/A
- 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	If the product adheres to skin, irritation may occur when it dries
• 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
	This mixture does not contain any substances to be mentioned according to the criteria on Section 3.2 of REACH Annex II
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 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. 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
• 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. Obtain medical attention if pain, irritation, blinking or redness persists
• Ingestion	Wash out mouth with water. Do NOT induce vomiting. Get emergency medical attention. 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. Call a doctor or poison centre if you feel unwell
• 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. 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	May cause moderate irritation
• Eye contact	May cause slight irritation

- Ingestion — May be harmful if swallowed
- Inhalation — May cause respiratory irritation
- Delayed / immediate effects — NDA

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Immediate / special treatment — No specific treatment. Treat symptomatically

SECTION 5. Fire-Fighting Measures

5.1 Extinguishing Media

Dry powder, foam, carbon dioxide, water spray

Unsuitable extinguishing media: Do not use a heavy water stream

5.2 Special Hazards Arising from the Material

Not flammable

Decomposition may release: Carbon dioxide, carbon monoxide, nitrogen 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 attempt to take action without suitable protective equipment. Self contained breathing apparatus. Complete protective clothing

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 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

Stop the leak 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 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

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. 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

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 not be 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. 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: Refer to the 'Best Before' date on the container label

Use of the stock should be by Best Before 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 especially from direct sunlight (UV) and high temperatures

Protect from freezing, frost and heat. 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, including any incompatibles

Strong acids, bases, oxidising agents

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 D of an injection resin for waterproofing. Refer to the Technical Data Sheet for further information

SECTION 8. Personal Protection/Exposure Control

8.1 Control Parameters

Workplace Exposure Limits (WEL)

NDA, see SECTION 3.2

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

Part D of a muilt-part product, stirring is. Work and dispense off impervious protective sheeting against splashes onto the person(s) performing this task, any other persons and onto the surrounding areas:

- 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 application is done, dispose of 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 disposable overshoes
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
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: 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	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
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		Characteristic
• Odour threshold		NDA
• pH		7-8
• Melting point/range °C		N/A

• Freezing point/range °C	NDA
• Initial boiling point/range °C	NDA
• Flash point/self-ignition °C	NDA
• Evaporation rate	NDA
• Flammability (solid, gas)	N/A
• 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	1.019 g/ml
• Specific weight	NDA
• Solubility in water	Miscible in water
• Partition coefficient n-octanol/water	NDA
• Also soluble in	NDA
• Viscosity, kinematic	29.441 mm^2/s
• Viscosity, dynamic	30 mPa.s
• 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	None
10.2 Chemical Stability	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	No dangerous reactions known under normal conditions of use
10.4 Conditions to Avoid	None known
10.5 Incompatible Materials to Avoid	Bases, strong acids, oxidising agents
10.6 Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, nitrogen oxides

SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects

• Acute toxicity	Acute toxicity (oral):	Not classified
	Acute toxicity (dermal):	Not classified
	Acute toxicity (inhalation):	Not classified

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: NDA

Relevant hazards for product: NDA

Other hazards

Hazard	Basis
Acute toxicity - oral	Not classified
Acute toxicity - dermal	Not classified
Acute toxicity - inhalation	Not classified
Ingestion	NDA
Serious eye damage / irritation	Not classified
Skin corrosion / irritation	Not classified
Respiratory hazard / inhalation	Not classified
Skin sensitisation	Not classified
Carcinogenicity	Not classified
Germ cell mutagenicity	Not classified
Reproductive toxicity	Not classified
STOT single exposure	Not classified
STOT repeated exposure	Not classified
Aspiration hazard	Not classified

Viscosity, kinematic: 29.441 mm^2/s

Other 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

SECTION 12. Ecological Information

12.1 Toxicity

Environment / Ecology: This product is not considered harmful to aquatic organisms nor to cause long-term adverse effects to the environment

Aquatic toxicity: Acute toxicity: Not classified
Chronic toxicity: Not classified

12.2 Persistence and Biodegradability: No additional information available

12.3 Bioaccumulative Potential: No additional information available

12.4 Mobility in Soil: No additional information available

12.5 Results of PBT & vPvT Assessment: No additional information available

12.6 Other Adverse Effects: No additional information available

Avoid 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 — Dispose at approved waste collection sites as controlled waste
- Disposal of packaging — 22.8 g plastic jerry can with screw cap so cannot access internally to clean, dispose to controlled waste disposal with recycling if done by them
- Waste code number — 17 09 03*: Part D, mixed Parts D+C and wet & solidified mixed Parts A+B+C+D+E
  17 02 04*: Packaging Plastic drum with Part D remnants
- 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				
N/A	N/A	N/A	N/A	N/A
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				
N/A	N/A	N/A	N/A	N/A
No supplementary information available				

4.6 Special Precautions for User

- 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:

(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 substances on the REACH candidate list
Contains no REACH Annex XIV substance
Directive 2012/18/EU (SEVESO III)

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
19/03/19	N/A				This is the 1st issue, 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 Full text of H and EUH statements

EUH208	May produce an allergic reaction. Contains a mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2benzisothiazol-3-(2H)-one

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16.6 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

16.7 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 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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System 300

NEWTON 324-SR Part E: Initiator

Flexible Acrylic-Rubber Injection Resin

Rev 1.0 - 19th March 2019

PRODUCT CODE - 324-SR

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

Product Identifier

- Product form: Mixture
- Product name: Newton 324-SR Initiator
- Product codes: 324-SR

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture: Professional use only
  Initiator constituent in an injection resin for 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)

Ox. Sol. 3	H272
Acute Tox. 4 (Oral)	H302
Skin Irrit. 2	H315
Skin Sens. 1	H317
Eye Irrit. 2	H319
Resp. Sens. 1	H334
STOT SE 3	H335

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

- Adverse physicochemical, human health and environmental effects

  May intensify fire; oxidiser. Harmful if swallowed. May cause respiratory irritation. Causes skin irritation. May cause an allergic reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled

2.2 Label Elements

- Hazard pictograms (CLP)

GHS03 GHS07 GHS08

- Signal words (CLP): Danger
- Hazard statements (CLP):
  - H272: May intensify fire
  - H302: Harmful if swallowed
  - H315: Causes skin irritation
  - H317: May cause an allergic skin reaction
  - H319: Causes serious eye irritation
  - H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
- Hazardous ingredients: Sodium persulphate
- Precautionary statements (CLP):
  - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
  - P220 Keep / Store away from combustible materials
  - P261 Avoid breathing dust, fume, gas, spray, mist, vapours
  - P280 Wear protective gloves / clothing and eye / face protection
  - P302+P352 IF ON SKIN: Wash with plenty of water
  - 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
  - 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: ECHA: the substance is not PBT / vPvB
- 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)
Sodium persulphate (ECHA / REACH name: Disodium peroxodisulphate)	7775-27-1	231-892-1			≤100	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Resp. Sens. 2, H334 STOT SE 3, H335

NB Refer to SECTION 8 for Personal Protection / Exposure Controls

Refer to SECTION 16 for the full text of Hazard Statements

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SECTION 4. First Aid Measures

4.1 Description of First Aid Measures

- General: Never give anything by mouth to an unconscious person. 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. 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
- 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. Obtain medical attention if pain, irritation, blinking or redness persists
- Ingestion: Wash out mouth with water. Do NOT induce vomiting. Get emergency medical attention. 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. Call a doctor or poison centre if you feel unwell
- 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. 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: Causes skin irritation. Irritation. May cause an allergic skin reaction
- Eye contact: May cause slight irritation. Eye irritation
- Ingestion: Harmful if swallowed
- Inhalation: May cause respiratory irritation. Cough. May cause allergy or asthma symptoms or breathing difficulties if inhaled
- Delayed / immediate effects: NDA

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Immediate / special treatment: No specific treatment. Treat symptomatically

SECTION 5. Fire-Fighting Measures

5.1 Extinguishing Media

Dry power, water spray, foam

Unsuitable extinguishing media: Heavy water jet, carbon dioxide

5.2 Special Hazards Arising from the Material

May intensify fire; oxidiser

May form explosive peroxides

Toxic fumes may be released

High temperatures and chemical contamination may liberate gaseous oxygen causing hazardous pressure increase

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 attempt to take action without suitable protective equipment. Self contained breathing apparatus. Complete protective clothing

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

Prevent from entering sewers, basements, workpits and any other place where its accumulation can be dangerous

Allow no open flames, sparks, smoking or any other sources of ignition

Do not use clean-up tools, etc. than may cause sparks

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 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

Stop the leak 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 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

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. 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

No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources

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 not be 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 out of direct sunlight

Only store in original containers. Keep container tightly closed. Do not store in corrodible metal

The floor of the storage area to be impermeable to prevent the escape of spillage

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b. Maximum storage period

Maximum storage / use period: Refer to the 'Best Before' date on the container label

Use of the stock should be by Best Before 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 especially from direct sunlight and high temperatures

Protect from heat. 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 including any incompatibles

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

Incompatibles: Solvent, oil, reducing agents, bases, acids,, moisture, heat sources and combustible materials

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 E of an injection resin for waterproofing. 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	
Sodium persulphate (ECHA / REACH name: Disodium peroxodisulphate)						
7775-27-1	Not on the EH40 Table					HSE
	0.1	NDA	NDA	NDA	NDA	EU

CAS 7775-27-1 Sodium persulphate	
Derived No Effect Level (DNEL) / Derived Minimal Effect Level (DMEL)	WORKERS
Acute - systemic effects: Dermal	400 mg/kg body weight/day
Acute - systemic effects: Inhalation	590 mg/m³

Acute - local effects: Dermal	2.248 mg/cm^2
Acute - local effects: Inhalation	2.06 mg/m^3
Long-term - systemic effects: Dermal	18.2 mg/kg body weight/day
Long-term - systemic effects: Inhalation	2.06 mg/m^3
Derived No Effect Level (DNEL) / Derived Minimal Effect Level (DMEL)	GENERAL POPULATION
Acute - systemic effects, dermal	200 mg/kg body weight/day
Acute - systemic effects: Inhalation	295 mg/m^3
Acute - systemic effects: Oral	30 mg/kg body weight/day
Acute - local effects: Dermal	1.124 mg/cm^2
Acute - local effects: Inhalation	295 mg/m^3
Long-term - systemic effects: Oral	9.1 mg/kg body weight/day
Long-term - systemic effects: Inhalation	1.03 mg/m^3
Long-term - systemic effects: Dermal	9.1 mg/kg body weight/day
Long-term - local effects: Dermal	0.051 mg/cm^2
Long-term - local effects: Inhalation	1.03 mg/m^3

CAS 7775-27-1 Sodium persulphate	
Predicted No Effect Concentration (PNEC)	
Environmental Protection Target	Value
Freshwater	0.076 mg/L
Intermittent releases (fresh water)	0.763 mg/L
Freshwater sediment	0.275 mg/kg sediment dw
Marine water	0.011 mg/L
Marine water sediment	.0.4 mg/kg sediment dw
Sewage treatment plant	3.6 mg/L
Air	No hazard identified
Soil	0.015 mg/kg soil dw
Hazard for predators, secondary poisoning	No potential for bioaccumulation
REACH Dossier (ECHA): Based on the results obtained, substances of the Persulphate Category were not classified and labelled, according to Directive 67/548 EEC (DSD) and to Regulation 1272/2008/EC (CLP)	

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 — Part E of a multi-part product, stirring is. Work and dispense off impervious protective sheeting against splashes onto the person(s) performing this task, any other persons and onto the surrounding areas:

- 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 application is done, dispose of contaminated protective sheeting, the overshoes, etc as controlled waste

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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	Protective work clothing based on chemical resistance data and assessment of the local exposure potential (Type 4: liquid spray, Type 5: solids, Type 6: liquid splash) Example: Impervious disposable 1-piece covering to body, legs and arms with closure at wrists and ankles, and disposable overshoes
b.	Eye / face protection	Tight fitting safety goggles, face visor if risk of splashing, 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
	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: Butyl Rubber conforming to EN 374
	Penetration time of gloves	Breakthrough time of the glove material > 8 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 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
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	Solid, fine white powder
		(ii) Colour	White

• Odour	Odourless
• Odour threshold	NDA
• pH	3.5-3.8
• Melting point/range °C	180°C
• Freezing point/range °C	N/A
• Initial boiling point/range °C	NDA
• Flash point/self-ignition °C	N/A
• Evaporation rate	NDA
• Flammability (solid, gas)	N/A
• Flammability limits, lower %	Non-flammable
• Flammability limits, upper %	NDA
• Auto flammability °C	N/A
• Decomposition temperature	180°C
• Explosive properties	NDA
• Explosive limits	N/A
• Oxidising properties	NDA
• Vapour pressure	NDA
• Relative vapour density at 20°C	NDA
• Relative density	2
• Specific weight	NDA
• Solubility in water	Soluble in water. Water: 0.55 g/ml
• 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	May cause fire or explosion: strong oxidiser May cause or intensify fire: oxidiser
10.2 Chemical Stability	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	If released it may accelerate the burning of other combustible materials
10.4 Conditions to Avoid	Heat. Moisture. Keep away from combustible materials. Avoid contact with hot surfaces. No flames. No sparks. Eliminate all sources of ignition
10.5 Incompatible Materials to Avoid	Solvents, oil, oxidising agents, bases, acids, heat sources moisture, combustible materials
10.6 Hazardous Decomposition Products	High temperatures and chemical contamination may liberate gaseous oxygen causing hazardous pressure increase

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To be used and applied according to the Technical Data Sheet

SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects

- Acute toxicity

Acute toxicity (oral): Harmful if swallowed
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified

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 7775-27-1 Sodium persulphate	Oral	LD50	Rat	920 mg/kg
	Dermal	LD50	Rabbit	10,000 mg/kg
	Inhalation (dust / mist)	LC50	Rat	5.1 mg/L/4 hr

Relevant hazards for product

Hazard	Negative Symptoms
Serious eye damage / irritation	Causes serious eye irritation. pH 3.5-3.8
Skin corrosion / irritation	Causes skin irritation, pH 3.5-3.8
Respiratory hazard / inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin sensitisation	May cause an allergic skin reaction
STOT single exposure	May cause respiratory irritation

Other hazards

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

Other 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

SECTION 12. Ecological Information

12.1 Toxicity

Environment: Not considered harmful to aquatic organisms nor to cause long-term adverse effects to the environment

Aquatic toxicity:
Acute toxicity: Not classified
Chronic toxicity: Not classified

12.2 Persistence and Biodegradability: No additional information available

12.3 Bioaccumulative Potential No additional information available

12.4 Mobility in Soil No additional information available

12.5 Results of PBT & vPvT Assessment No additional information available

ECHA / REACH Dossier: the substance is not PBT/vPvB

12.6 Other Adverse Effects No additional information available

Avoid 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

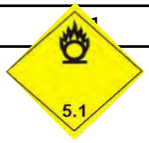
13.1 Waste Treatment Methods

- Recovery operations — Treat as SECTION 6: Accidental Release Measures
- Disposal operations — Dispose at approved waste collection sites as controlled waste
- Disposal of packaging — Plastic tub with full diameter lid, containing 0.625kg of the Initiator
- Waste code number — 17 09 03*: Part E, mixed Parts D+E and wet & solidified mixed product (all Parts)

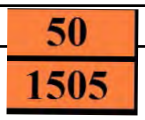
  17 02 04*: Packaging Plastic tub with Part E remnants
- Special precautions for the disposal method

  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				
1505	1505	1505	1505	1505
14.2 UN proper shipping name				
Sodium Persulphate	Sodium Persulphate	Sodium Persulphate	Sodium Persulphate	Sodium Persulphate
Transport document description				
UN 1505 Sodium Persulphate, 5.1, III, (E)	UN 1505 Sodium Persulphate, 5.1, III	UN 1505 Sodium Persulphate, 5.1, III	UN 1505 Sodium Persulphate, 5.1, III	UN 1505 Sodium Persulphate, 5.1, III
14.3 Transport hazard class(es)				
5.1				
				
14.4 Packing group				

III	III	III	III	III
14.5 Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6 Special precautions for users			
Overland transport	Classification code	ADR	O2
	Limited quantities	ADR	5kg
	Excepted quantities	ADR	E1
	Packing instructions	ADR	P002, IBC08, LP02, R001
	Special packing provisions	ADR	B4
	Mixed packing provisions	ADR	MP10
	Portable tank and bulk container instructions	ADR	T1
	Portable tank and bulk container special provisions	ADR	TP33
	Tank code	ADR	SGAV
	Tank special provisions	ADR	TU3
	Vehicle for tank carriage		AT
	Transport category	ADR	3
	Special provisions for carriage - Bulk	ADR	VC1, VC2, AP6, AP7
	Special provisions for carriage - Loading, unloading and handling	ADR	CV24
	Hazard identification number (Kemler No.)		50
	Orange plates		
	Tunnel restriction code	ADR	E
Transport by sea	Limited quantities	IMDG	5 kg
	Excepted quantities	IMDG	E11
	Packing instructions	IMDG	P002, LP02
	IBC packing instructions	IMDG	IBC08
	IBC special provisions	IMDG	B3
	Tank instructions	IMDG	T1
	Tank special provisions	IMDG	TP33
	EmS-No.	Fire	F-A
	EmS-No.	Spillage	S-Q
	Stowage category	IMDG	A
	Segregation	IMDG	SG39, SG49
	Properties and observations (IMDG)	Colourless crystals or powder. Soluble in water Mixtures with combustible material are sensitive to friction and are liable to ignite Reacts fiercely with cyanides when heated or by friction. May form explosive mixture with powdered metals or ammonium compounds	
	MFAG-No	IATA	140

Transport by air	PCA Excepted quantities	IATA	E1
	PCA Limited quantities	IATA	Y546
	Limited quantity maximum new quantity	IATA	10 kg
	Packing instructions	IATA	559
	Maximum net quantity	IATA	25 kg
	CAO Packing instructions	IATA	563
	CAO Maximum net quantity	IATA	100 kg
	ERG Code	IATA	5L
Inland waterway transport	Classification code	ADN	O2
	Limited quantities	ADN	5 kg
	Excepted quantities	ADN	E1
	Equipment required	ADN	PP
	Number of blue cones / lights	ADN	0
Rail transport	Classification code	RID	O2
	Limited quantities	RID	5 kg
	Excepted quantities	RID	E1
	Packing instructions	RID	P001, IBC08, LP02, R001
	Special packing provisions	RID	B3
	Mixed packing instructions	RID	MP10
	Portable tank and bulk container instructions	RID	T1
	Portable tank and bulk container special provisions	RID	TP33
	Tank codes for RID tanks	RID	SGAV
	Special provisions for RID tanks	RID	TU3
	Transport category	RID	3
	Special provisions for carriage - Bulk	RID	VC1, VC2, AP6, AP7
	Special provisions for carriage - Loading, unloading and handling	RID	CW24
	Colis express (express parcels)	RID	CE11
	Hazard identification number	RID	50
14.7 Transport in bulk according to Annex 11 of Marpol and 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 substances on the REACH candidate list
Contains no REACH Annex XIV substance
Directive 2012/18/EU (SEVESO III)

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
19/03/19	N/A				This is the 1st issue, 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
LC50: Lethal concentration, 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 Full text of H and EUH statements

Acute Tox. 4 (Oral)	Acute toxicity (Oral), Category 4
Eye Irrit. 2	Serious eye damage / irritation, Category 2
Ox. Sol. 3	Oxidising solids, Category 3
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion / irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3, respiratory tract irritation
H272	May intensify fire; oxidiser
H302	Harmful if swallowed

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H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

16.6 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

16.7 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 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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