

System 300

NEWTON 320-FP (PART A)

Open-Cell Rigid Sealing Injection Resin

Rev 1.0 - 26 February 2019

PRODUCT CODE - 320-FP

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

Product Identifier

- Product form Mixture
- Product name Newton 320-FP
- Product codes 320-FP

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture Professional Use only
Part A of a 2-part product, 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
Skin Sens. 1	H317
Eye Irrit. 2,	H319
Acute Tox 4 (Inhalation)	H332
Resp. Sens. 1	H334
Carc. 2	H351
STOT SE 3	H335
STOT RE 2	H373

 Full text of hazard classes and H-statements: see SECTION 16
- Adverse physicochemical, human health and environmental effects
Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful if inhaled. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled

2.2 Label Elements

- Hazard statements As 2.1 Classification under CLP
- Signal words (CLP) Danger

- Hazard pictograms (CLP)



GHS07

GHS08

- Hazardous ingredients

Diphenylmethane-4,4'-diisocyanate
 Diphenylmethanediisocyanate, isomers and homologues
 Diphenylmethane-2,4'-di-isocyanate
 Isocyanic acid, polymethylenepolyphenylene ester
 polymer with alpha-hydro-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and alpha, alpha', alpha''-1,2,3-propanetriyltris(omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)))

- Hazard statements (CLP)

H315 Causes skin irritation
 H317 May cause an allergic skin reaction
 H319 Causes serious eye irritation
 H332 Harmful if inhaled
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H335 May cause respiratory irritation
 H351 Suspected of causing cancer
 H373 May cause damage to organs through prolonged or repeated exposure

- Precautionary statements (CLP)

P260 Do not breathe dust, fume, gas, mist, spray, vapours
 P280 Wear protective gloves / clothing and eye / face protection
 P302+P352 IF ON SKIN: Wash with plenty of water
 P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305+P351 IF IN EYES: Rinse cautiously with water for several minutes.
 +P338 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

- EUH statements

EUH204 Contains isocyanates: may cause an allergic reaction

- 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
- Other Hazards
- Other information

No additional information available

NDA

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 / List No.	REACH Registration Number	%	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Diphenylmethanediisocyanate, isomers and homologues	9016-87-9	618-498-9	01-2119457014-47	40-60	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, (inhalation), H332 Resp. Sens. 1, H334 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0	01-2119457014-47	20-30	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4 (inhalation), H332 Acute Tox. 4 (inhalation dust, mist), H332 Resp. Sens. 1, H334 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Isocyanic acid, polymethylenepolyphenylene ester polymer with alpha-hydro-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and alpha, alpha', alpha''-1,2,3-propanetriyltris(omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)))	88169-02-2 (ID 61111-77-1)			10-20	Skin Sens. 1, H317 Resp. Sens. 1, 334
Dimethyl succinate	106-65-0	203-419-9		1-10	Eye Irrit. 2, H319
Dimethyl adipate	627-93-0	211-020-6		1-10	Acute Tox. 4 (Oral), H302
Propylene carbonate	108-32-7			1-10	Eye Irrit. 2, H319
Diphenylmethane-2,4'-di-isocyanate	5873-54-1	227-534-9	01-2119480143-45	0-1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4 (inhalation: dust, mist), H332 Resp. Sens. 1, H334 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

Specific Concentration Limits				
Chemical Name	CAS	EC LIST No	REACH Registration Number	Specific concentration Limits
Diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0	01-2119457014-47	(C ≥ 0.1%) Resp. Sens. 1, H334 (C ≥ 5%) Skin Irrit. 2, H315 (C ≥ 5%) Eye Irrit. 2, H319 (C ≥ 5%) STOT SE 3, H335
Diphenylmethane-2,4'-di-isocyanate	5873-54-1	227-534-9	615-005-00-9	(C ≥ 0.1%) Resp. Sens. 1, H334 (C ≥ 5%) Skin Irrit. 2, H315 (C ≥ 5%) Eye Irrit. 2, H319 (C ≥ 5%) 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

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
- **Inhalation**

Ventilate the area. Remove person from the contaminated place to rest in fresh air and keep comfortable and breathing. Loosen tight clothing such as collar, tie, belt or waistband. If you feel unwell seek medical advice. Get medical attention if adverse health effects persist or are severe
- **Self-protection for first aiders**

No action to be taken involving any personal risk or without suitable training. If it is suspected that the mixture is still present, wear appropriate Personal Protection Equipment, see SECTION 8.2. Wear gloves to remove contaminated clothing, see SECTION 13 for washing or disposal

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- **Skin contact**

Causes skin irritation. Irritation. May cause and allergic reaction
- **Eye contact**

Causes serious eye irritation. Eye irritation
- **Ingestion**

Harmful if swallowed
- **Inhalation**

Harmful if inhaled. May cause respiratory irritation. May cause allergy or

- Delayed / immediate effects asthma symptoms or breathing difficulties if inhaled
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 powder, carbon dioxide, and water spray

Unsuitable extinguishing media:

- Water: reacts slowly with water (moisture) releasing harmful gases / vapours and carbon dioxide

5.2 Special Hazards Arising from the Material

Toxic fumes may be released

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

Persons already sensitised to diisocyanates may develop allergic reactions when using this product

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

Wear protective equipment as required by use- see SECTION 8

Do not get in eyes, on skin or on clothing - see SECTION 8 for the protection of work clothing. 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 from freezing, frost, heat and direct sunlight. Keep away from sources of ignition, open flames or excessive heat

Ensure containers are securely closed against vibration spillage during transport when loading / unloading vehicles, during transport and moving from vehicle to the work location. Unopened containers to be protected against damage during these movements
- d. Storage with other substances and mixtures
Only store in the original packaging. Store against falling / touching other materials and in an allocated location

Store away from water, alcohols, amines, bases and acids
- e. Storage room design, quantity limits, ventilation and packaging compatibilities
Storage room to be dry, ventilated, and constructed to have impermeable floors and walls to prevent the escape of spillages into the environment
- f. Other considerations
No other data available
- 7.3 Specific End Use(es)
Part A of a 2-part product, 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 / m ³	ppm	mg / m ³		
Diphenylmethanediisocyanate, isomers and homologues 9016-87-9	-	0.02	-	0.07	The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to substances identified in IOELV Directives	EH40 Isocyanates

Diphenylmethane-4,4'-diisocyanate						
101-68-8	-	0.02	-	0.07	Sen	EH40 Isocyanates
Isocyanic acid, polymethylenepolyphenylene ester polymer with alpha-hydro-omega-hydroxypoly(oxy(methyl-1,2-ethanediyl)) and alpha, alpha',alpha''-1,2,3-propanetriyltris(omega- hydroxypoly(oxy(methyl-1,2-ethanediyl))) [identity 61111-77-1]						
88169-02-2	-	0.02	-	0.07	Sen	EH40 Isocyanates
Diphenylmethane-2,4'-di-isocyanate						
5873-54-1	-	0.02	-	0.07	Sen	EH40 Isocyanates

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls

- a. Ventilation
Ensure there is sufficient ventilation in the area, including forced ventilation if necessary or in an internal or enclosed space, with safe exhaust away from other persons. The floor must be impermeable to prevent the escape of liquids, laying impermeable protective covering if in doubt
- b. Isolation
Isolate the work area with warning signage against unauthorised access. Ensure all other persons are pre-notified of the works and remain clear of the work area
- c. Washing
Provide eye wash facilities, individual eye wash ampoules and safety shower
- d. Against contamination
Refer to SECTION 15.1 for any 'Other Regulations' and the REACH Annex XVII statements there
Only mix the 2 Parts of the product on impervious protective sheeting against splashes onto the person(s) performing this task, any other persons and onto the surrounding areas:
 - When opening each Part and when progressively mixing them together
 - When using the power mixer / paddle off a drill, include erecting barrier around if necessary to stop splashes off the protective sheeting onto other persons, structures, ground, etc
 - The person(s) performing this to wear disposable overshoes over their safety work boots when working off the protective sheeting against walking contamination onto the surrounding area
 - When the mixing is done, dispose of the contaminated protective sheeting, the overshoes, etc as controlled waste
- e. Mists
Prevent the formation of vapour or aerosol
- f. Hygiene & Occupational care
Do not eat, drink or smoke during stirring or use of the product. Wash hands with soap and water before eating, drinking 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
If at risk of splashing to face when mixing the 2-part product wear a full face visor
- c. Skin protection
 - (i) Hand Protection
To be impermeable 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	Brown
• Odour		Characteristic odour
• Odour threshold		NDA
• pH		NDA
• Melting point/range °C		N/A
• Freezing point/range °C		NDA
• Initial boiling point/range °C		NDA
• Flash point/self-ignition °C		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 1.15 g/ml
- Specific weight NDA
- Solubility in water Reacts with water
- Partition coefficient n-octanol/water NDA
- Also soluble in NDA
- Viscosity, kinematic 96.522 mm²/s
- Viscosity, dynamic 111 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 Stable under recommended transport or storage conditions
Reacts with water

10.2 Chemical Stability Stable at room temperature, under recommended transport or storage conditions and when protected against the materials or conditions listed in SECTIONS 10.1 and 10.3
Reacts slowly with water releasing: Carbon dioxide

10.3 Possibility of Hazardous Reactions Reacts with water, generates gases or heat and overpressure: ruptures the container(s)

10.4 Conditions to Avoid High temperatures. Moisture

10.5 Incompatible Materials to Avoid Water, alcohols, amines, bases and acids

10.6 Hazardous Decomposition Products During combustion: carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen cyanide, hydrocarbon

SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects

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

ATE (Acute Toxicity Estimates) under CLP	
Gases	4,500 ppmv/4hr
Vapours	11 mg/L/4hr
Dust, mist	1.5 mg/L/4hr

Hazardous ingredients

Substance	Route	Test	Species	Value
CAS 101-68-8 Diphenylmethane-4,4'-diisocyanate	Oral	LD50	Rat	> 10,000 mg/kg
	Dermal	LD50	Rabbit	> 9,400 mg/kg
	Inhalation	LD50	Rat (mg/L)	0.49 mg/L/4hr
CAS 106-65-0 Dimethyl succinate	Oral	LD50	Rat	> 5 mg/kg
	Dermal	LD50	Rabbit	> 5 mg/kg
CAS 108-32-7 Propylene carbonate	Oral	LD50	Rat	> 5,000 mg/kg
	Dermal	LD50	Rabbit	> 2,000 mg/kg
CAS 5873-54-1 Diphenylmethane-2,4'-di-isocyanate	Oral	LD50	Rat	> 2,000 mg/kg
CAS 627-93-0 Dimethyl adipate	Oral	LD50	Rat	1,902 mg/kg
CAS 9016-87-9 Diphenylmethanediisocyanate, isomers and homologues	Oral	LD50	Rat	> 10,000 mg/kg
	Dermal	LD50	Rabbit	> 9,400 mg/kg
	Inhalation	LD50	Rat (mg/L)	0.31 mg/L/4hr

Relevant hazards for product

Hazard	Negative Symptoms
Respiratory hazard / inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Serious eye damage / irritation	Causes serious eye irritation
Skin sensitisation	May cause an allergic skin reaction
Skin corrosion / irritation	Causes skin irritation
Carcinogenicity	Suspected of causing cancer
STOT single exposure	May cause respiratory irritation
STOT repeated exposure	May cause damage to organs through prolonged or repeated exposure

Other hazards

Hazard	Basis
Acute toxicity - oral	NDA
Acute toxicity - dermal	NDA
Acute toxicity - inhalation	NDA
Ingestion	NDA
Germ cell mutagenicity	Not classified. Based on the available data the classification criteria is not met
Reproductive toxicity	Not classified. Based on the available data the classification criteria is not met
Aspiration hazard	Not classified. Based on the available data the classification criteria is not met

Viscosity, kinematic 96.552 mm/s²

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 the environment	
Aquatic toxicity	Acute toxicity:	Not classified
	Chronic toxicity:	Not classified

CAS 627-93-0 is considered to be harmful to aquatic organisms

Hazardous ingredients	Specie	Test	Duration	Value
CAS 627-93-0 Dimethyl adipate	Fish	LC50	96 hr	18-24 mg/L

12.2 Persistence and Biodegradability No additional information available

12.3 Bioaccumulative Potential Low potential for bioaccumulation

Substance	Partition coefficient: n-octanol/water (Log Pow)
CAS 106-65-0 Dimethyl succinate	0.35
CAS 108-32-7 Propylene carbonate	0.41
CAS 627-93-0 Dimethyl adipate	0.6 - 1.4

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 NDA

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 **NOTE:** The surface can skin over leaving the material below in its liquid state
Dispose at approved waste collection sites as controlled waste
- Disposal of packaging Metallic 25L drum with cap inset into the top face so cannot access internally to clean, dispose to controlled waste disposal and including metal recycling if possible by them
- Waste code number Part A and wet & solidified mixed Part A+Part B: 17 09 03*
Packaging Metal drum with resin remnants: 17 04 09*
- 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

- 14.1 UN Number N/A
- 14.2 UN Proper Shipping Name N/A
- 14.3 Transportation Hazard Class(es) N/A
- 14.4 Packing Group N/A
- 14.5 Environmental Hazards N/A

4.6 Special Precautions for User

- 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

Directive 2012/18/EU (SEVESO III)

When the information contained within the SDS is complied with the product contains no REACH substances with Annex XVII restrictions

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
26/02/19	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
 DNEL: Derived No-Effect Level (REACH)
 EINECS: European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substance number
 HSE: (UK) Health & Safety Executive
 IBC Code: International Building Code
 LC50: Lethal concentration, 50% affected

LD50: Lethal dose, 50% affected
 MARPOL: International Convention for the Prevention of Pollution from Ships
 N/A: Not Applicable
 NDA: No Data Available
 PBT: Persistent, Bioaccumulative and Toxic substances
 vPvB: Very Persistent and very Bioaccumulative substances
 PNEC: Predicted No-Effect Level (REACH)
 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 (Inhalation)	Acute toxicity (inhalation), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage / irritation, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion / irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3, respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
EUH304	Contains isocyanates. May produce an allergic reaction

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

System 300

NEWTON 320-FP (PART B)

Open-Cell Rigid Sealing Injection Resin

Rev 1.0 - 26 February 2019

PRODUCT CODE - 320-FP

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

Product Identifier

- Product form Mixture
- Product name Newton 320-FP
- Product codes 320-FP

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture Professional Use only
Catalyst, Part B of a 2-part product, 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 Corr. 1A H314
 - Aquatic Chronic 3 H412
 - Full text of hazard classes and H-statements: see SECTION 16
- Adverse physicochemical, human health and environmental effects
 - Causes severe skin burns and eye damage
 - Harmful to aquatic life with long lasting effects

2.2 Label Elements

- Hazard statements As 2.1 Classification under CLP
- Signal words (CLP) Danger

- Hazard pictograms (CLP)



GHS05

- Hazardous ingredients tert. amine
- Hazard statements (CLP)
 - H314 Causes severe skin burns and eye damage
 - H412 Harmful to aquatic life with long lasting effects

- Precautionary statements (CLP)
 - P260 Do not breathe gas, mist, spray, vapours
 - P280 Wear protective gloves / clothing and eye / face protection
 - P303+P361 + P353 IF ON SKIN (or hair): Immediately take off contaminated clothing. Rinse skin with water / shower
 - 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 Datasheet

2.3 Other Hazards

- PBT / vPvB Contains no substances that meet the REACH criteria for PBT / vPvB
- Other Hazards NDA
- Other information Classification and labelling have been made on the basis of safety data sheets of 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 / List No.	REACH Registration Number	%	Classification according to Regulation (EC) No. 1272/2008 (CLP)
tert.amine782	112-69-6	203-997-2		20-30	Acute Tox. 4, (oral), H302 Skin Corr. 1A, H314
Dimantine	124-28-7			0.01-1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
tetradecyldimethylamine	112-75-4			0.01-1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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 immediately. 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

- Skin contact
Eye bathing equipment and First Aid Box should be available
Take this SDS with you when seeking medical advice
Remove contaminated clothing. Gently remove all traces of product and wash with plenty of soap and water / shower. Continue to rinse for at least 10 minutes. Immediately seek medical 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. Contact a doctor immediately. 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
- Inhalation
Ventilate the area. Remove person from the contaminated place to rest in fresh air and keep comfortable and breathing. Loosen tight clothing such as collar, tie, belt or waistband. If you feel unwell seek medical advice. Get medical attention if adverse health effects persist or are severe
- Self-protection for first aiders
No action to be taken involving any personal risk or without suitable training. If it is suspected that the mixture is still present, wear appropriate Personal Protection Equipment, see SECTION 8.2. Wear gloves to remove contaminated clothing, see SECTION 13 for washing or disposal

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- Skin contact Causes burns. Burns
- Eye contact Causes serious eye damage Serious damage to eyes
- Ingestion Harmful if swallowed. Burns
- Inhalation Inhalation of fumes or vapours 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, 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

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

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

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

d. Storage with other substances and mixtures

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

Store away from water, alcohols, amines, bases and acids

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

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

f. Other considerations

No other data available

7.3 Specific End Use(es)

Part B of a 2-part product, an injection resin for waterproofing. Refer to the technical Datasheet 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 / m ³	ppm	mg / m ³		
tert.amine 112-69-6			Not on the EH40 Table		The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to substances identified in IOELV Directives	HSE
Dimantine 124-28-7			Not on the EH40 Table			
tetradecyldimethylamine 112-75-4			Not on the EH40 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
Only mix the 2 Parts of the product on impervious protective sheeting against splashes onto the person(s) performing this task, any other persons and onto the surrounding areas:
 - When opening each Part and when progressively mixing them together
 - When using the power mixer / paddle off a drill, include erecting barrier around if necessary to stop splashes off the protective sheeting onto other persons, structures, ground, etc
 - The person(s) performing this to wear disposable overshoes over their safety work boots when working off the protective sheeting against walking contamination onto the surrounding area
 - When the mixing is done, dispose of the contaminated protective sheeting, the overshoes, etc as controlled waste
- e. Mists
Prevent the formation of vapour or aerosol
- f. Hygiene & Occupational care
Do not eat, drink or smoke during stirring or use of the product. Wash hands with soap and water before eating, drinking 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 If at risk of splashing to face when mixing the 2-part product wear a full face visor
c.	Skin protection	
	(i) Hand Protection	To be impermeable 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. Gloves 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	Light yellow
• Odour		Characteristic odour
• Odour threshold		NDA
• pH		NDA
• Melting point/range °C		N/A
• Freezing point/range °C		NDA

• Initial boiling point/range °C	NDA
• Flash point/self-ignition °C	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	0.923 g/ml
• Specific weight	NDA
• Solubility in water	NDA
• Partition coefficient n-octanol/water	NDA
• Also soluble in	NDA
• Viscosity, kinematic	39.003 mm ² /s
• Viscosity, dynamic	36 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	Stable under recommended transport or storage conditions
10.2 Chemical Stability	Stable at room temperature, under recommended transport or storage conditions and when protected against the materials or conditions listed in SECTIONS 10.1 and 10.3
10.3 Possibility of Hazardous Reactions	No dangerous reactions known under normal conditions of use
10.4 Conditions to Avoid	Direct sunlight. Extremely high or low temperatures
10.5 Incompatible Materials to Avoid	Metal ions. May react violently with acids
10.6 Hazardous Decomposition	None known

SECTION 11. Toxicological Information

11.1 Information on Toxicological Effects

• Acute toxicity	Harmful if inhaled In the absence of experimental toxicological data on the product itself, the potential risks to health were evaluated based on the properties of the constituent substances, according to the criteria laid down by the relevant regulations for Classification
• Hazardous ingredients	NDA

Relevant hazards for product

Hazard	Negative Symptoms
Serious eye damage / irritation	Causes severe eye damage, category 1, implicit
Skin corrosion / irritation	Causes severe skin burns and eye damage

Other hazards

Hazard	Basis
Acute toxicity - oral	Not classified. Based on the available data the classification criteria is not met
Acute toxicity - dermal	Not classified. Based on the available data the classification criteria is not met
Acute toxicity - inhalation	Not classified. Based on the available data the classification criteria is not met
Skin sensitisation	Not classified. Based on the available data the classification criteria is not met
Respiratory hazard / inhalation	Not classified. Based on the available data the classification criteria is not met
Ingestion	NDA
Germ cell mutagenicity	Not classified. Based on the available data the classification criteria is not met
Carcinogenicity	Not classified. Based on the available data the classification criteria is not met
Reproductive toxicity	Not classified. Based on the available data the classification criteria is not met
STOT - single exposure	Not classified. Based on the available data the classification criteria is not met
STOT - repeated exposure	Not classified. Based on the available data the classification criteria is not met
Aspiration hazard	Not classified. Based on the available data the classification criteria is not met

Viscosity, kinematic 39.003 mm/s²

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

SECTION 12. Ecological Information

12.1 Toxicity

Environment Harmful to aquatic life with long lasting effects

Aquatic toxicity Acute toxicity: Not classified
Chronic toxicity: Harmful to aquatic life with long lasting effects

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 This mixture is not PBT or 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 manufacturer's SDS which is based on information contained in the safety data sheets of the raw materials that make up the product
No other information available



SECTION 13. Disposal Considerations

13.1 Waste Treatment Methods

- Recovery operations Treat as SECTION 6: Accidental Release Measures
- Disposal operations Dispose at approved waste collection sites as controlled waste
- Disposal of packaging Plastic 2.3L container with plastic screw cap, cannot clean

- Waste code number Part B and wet & solidified mixed Part A+Part B: 17 09 03*
Packaging Plastic container with remnants: 17 02 04*
- 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				
2735	2735	2735	N/A	2735
14.2 UN proper shipping name				
AMINES, LIQUID, CORROSIVE, N.O.S.	N/A	N/A	N/A	N/A
Transport document description				
UN2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8,III, (E)	UN 2735, 8, III	UN 2735, 8	N/A	UN 2735, 8
14.3 Transport hazard class(es)				
8	8	8	N/A	8
	N/A	N/A	N/A	
14.4 Packing group				
III	III	N/A	N/A	N/A
14.5 Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	N/A	Dangerous for the environment: No
No supplementary information available				

14.6 Special precautions for users			
Overland transport	Classification code	ADR	C7
	Special provisions	ADR	274
	Limited quantities	ADR	5L
	Excepted quantities	ADR	E1
	Packing instructions	ADR	P001, IBC03, LP01, R001
	Mixed packing provisions	ADR	MP19
	Portable tank and bulk container instructions	ADR	T7
	Portable tank and bulk container special provisions	ADR	TP1, TP28
	Tank code	ADR	L4BN
	Vehicle tank carriage		AT
	Transport category	ADR	3
	Special provisions for carriage	ADR	V12
	Hazard identification number (Kemler No.)		80

(Overland continued)	Orange plates		<table border="1"> <tr><td>80</td></tr> <tr><td>2735</td></tr> </table>	80	2735
80					
2735					
	Tunnel restriction code	ADR	E		
Transport by sea	MFAG-No		153		
Transport by air			NDA		
Inland waterway transport			NDA		
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 substance on the REACH candidate list
 Contains no REACH Annex XIV substances
 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
26/02/19	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
 EINECS: European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substance number
 HSE: (UK) Health & Safety Executive
 IBC Code: International Building Code
 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
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage / eye irritation, Category 1
Skin Corr. 1A	Skin corrosion / irritation, Category 1A
Skin Corr. 1B	Skin corrosion / irritation, Category 1B
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3, respiratory tract irritation
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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