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# SAFETY DATA SHEET CONBEXTRA EPR HARDENER

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier	
Product name	CONBEXTRA EPR HARDENER
Product number	A1168002UK9, A1168004UK9
UFI	UFI: QPJ0-K0V8-X00V-AF0P
1.2. Relevant identified uses	of the substance or mixture and uses advised against
Identified uses	Hardener component of three-part epoxy grout.
1.3. Details of the supplier of	f the safety data sheet
Manufacturer	Fosroc International Limited Drayton Manor Business Park Coleshill Road Tamworth Staffordshire B78 3XN England Tel: +44 (0) 1827 262222 Fax: +44 (0) 1827 262444 enquiryuk@fosroc.com
1.4. Emergency telephone n	umber
Emergency telephone	+44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)
SECTION 2: Hazards identif	ication
2.1. Classification of the sub Classification (EC 1272/2008	
Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335
Environmental hazards	Not Classified
2.2. Label elements	
Hazard pictograms	
Signal word	Danger
Hazard statements	H302+H312 Harmful if swallowed or in contact with skin. H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary statements	<ul> <li>P260 Do not breathe vapour/ spray.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water or shower.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 Immediately call a POISON CENTER/ doctor.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>
Contains	1,5-PENTANEDIAMINE, 2-METHYL, PARA TOLUENE SULPHONIC ACID MONOHYDRATE
Supplementary precautionary statements	<ul> <li>P261 Avoid breathing vapour/ spray.</li> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P272 Contaminated work clothing should not be allowed out of the workplace.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.</li> <li>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P302+P352 IF ON SKIN: Wash with plenty of water.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P362+P364 Take off contaminated clothing and wash it before reuse.</li> <li>P363 Wash contaminated clothing before reuse.</li> </ul>

## 2.3. Other hazards

None known.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

1,5-PENTANEDIAMINE, 2-METH	YL	60-100%
CAS number: 15520-10-2	EC number: 239-556-6	REACH registration number: 01- 2119976310-41-0000
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335		
PARA TOLUENE SULPHONIC ACID MONOHYDRATE		1-5%
CAS number: 6192-52-5	EC number: 203-180-0	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## **SECTION 4: First aid measures**

4.1. Description of first aid me	asures
General information	Get medical attention if any discomfort continues.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention immediately.
4.2. Most important symptoms	and effects, both acute and delayed
General information	Get medical attention promptly if symptoms occur after washing.
Inhalation	May cause respiratory irritation. May cause coughing and difficulties in breathing.
Ingestion	May cause chemical burns in mouth and throat.
Skin contact	May cause sensitisation by skin contact. May cause serious chemical burns to the skin.
Eye contact	Eye contact may cause serious and potentially irreversible injuries.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fro	om the substance or mixture
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of nitrogen.
5.3. Advice for firefighters	
Protective actions during firefighting	Cool containers exposed to heat with water spray and remove them from the fire area if it car be done without risk. In case of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
SECTION 6: Accidental releas	se measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	For personal protection, see Section 8. Do not touch or walk into spilled material.
For emergency responders	Keep unnecessary personnel away. Do not touch damaged containers, or spilled material, unless wearing appropriate protective clothing. Remove all sources of ignition.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning upAbsorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area<br/>with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

#### 6.4. Reference to other sections

**Reference to other sections** For waste disposal, see Section 13.

#### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Usage precautions	Avoid contact with skin and eyes. Avoid breathing gas, fume, vapours or spray. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Wash hands thoroughly after handling.	
Advice on general occupational hygiene	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.	
7.2. Conditions for safe stora	age, including any incompatibilities	
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep away from heat, sparks and open flame.	
Storage class	Corrosive storage.	
7.3. Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	
SECTION 8: Exposure controls/Personal protection		
8.1. Control parameters		
Occupational exposure limit	<u>S</u>	

No exposure limits known for ingredient.

Ingredient comments	No exposure limits known for ingredient(s).	
Biological limit values	No biological exposure limits noted for the ingredient.	
	1,5-PENTANEDIAMINE, 2-METHYL (CAS: 15520-10-2)	
DNEL	Industry/Professional - Dermal; Long term : 1.5 mg/kg/day Industry/Professional - Inhalation; Short term : 0.5 mg/m³ Industry/Professional - Inhalation; Long term : 0.25 mg/m³	
PNEC	Industry/Professional - Fresh water; 0.42 mg/l Industry/Professional - Intermittent release; 0.42 mg/l Industry/Professional - marine water; 0.42 mg/l	

#### 8.2. Exposure controls

## Protective equipment



Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Polyvinyl chloride (PVC). Nitrile rubber. Viton rubber (fluoro rubber). Protective gloves should have a minimum thickness of 0.4 mm. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.
Hygiene measures	Provide eyewash station and safety shower. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
Respiratory protection	Respiratory protection may be required if excessive airborne contamination occurs. Gas filter, type K.
Environmental exposure controls	Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

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Appearance	Liquid.
Colour	Clear.
Odour	Amine.
Odour threshold	Not determined.
рН	Not available.
Melting point	-6056°C/(-7668.8)°F
Initial boiling point and range	192°C/377.6°F
Flash point	83°C / 181°F Method: Tag closed cup.
Evaporation rate	Not available.
Evaporation factor	Not applicable.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Other flammability	Not applicable.
Vapour pressure	0.22 mm Hg @ 20°C
Vapour density	Not available.
Relative density	0.86 g/cm3 @ 25°C

# CONBEXTRA EPR HARDENER

Bulk density	Not applicable.	
Solubility(ies)	Miscible with water.	
Partition coefficient	(n-Octanol/Water) <1	
Auto-ignition temperature	350°C	
Decomposition Temperature	Not available.	
Viscosity	3 mPa s @ 22.6°C	
Explosive properties	Not available.	
Explosive under the influence of a flame	Not considered to be explosive.	
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.	
9.2. Other information		
Other information	No data available.	
SECTION 10: Stability and rea	activity	
10.1. Reactivity		
Reactivity	Stable at normal ambient temperatures and when used as recommended.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures.	
10.3. Possibility of hazardous	reactions	
Possibility of hazardous reactions	No potentially hazardous reactions known.	
10.4. Conditions to avoid		
Conditions to avoid	Avoid heat, flames and other sources of ignition.	
10.5. Incompatible materials		
Materials to avoid	Strong oxidising agents. Strong acids.	
10.6. Hazardous decomposition	n products	
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of nitrogen.	
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity - oral	4 400 20	
ATE oral (mg/kg)	1,196.32	
Acute toxicity - dermal ATE dermal (mg/kg)	1,912.07	
Acute toxicity - inhalation ATE inhalation (dusts/mists mg/l)	5.01	

Inhalation	Harmful by inhalation. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.
Ingestion	Harmful if swallowed. May cause burns in mucous membranes, throat, oesophagus and stomach.
Skin contact	Causes burns. Harmful in contact with skin. May cause sensitisation by skin contact.
Eye contact	Causes burns. Risk of serious damage to eyes.
Acute and chronic health hazards	This product is corrosive.

## Toxicological information on ingredients.

### 1,5-PENTANEDIAMINE, 2-METHYL

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	1,170.0
Species	Rat
ATE oral (mg/kg)	1,170.0
Acute toxicity - dermal	
Acute toxicity dermal (LD <sub>50</sub> mg/kg)	1,870.0
Species	Rabbit
Species ATE dermal (mg/kg)	Rabbit 1,870.0
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ATE dermal (mg/kg)	
ATE dermal (mg/kg) Acute toxicity - inhalation Acute toxicity inhalation	1,870.0

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Toxicity	The product contains a substance which is harmful to aquatic organisms.
Acute aquatic toxicity Acute toxicity - fish	EC₅₀, : 1825 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 19.8 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC₅₀, 72 hours: >100 mg/l, Algae
Ecological information on ingredients.	

### 1,5-PENTANEDIAMINE, 2-METHYL

## Acute aquatic toxicity

Acute toxicity - fish Fish 1825 mg/l.

Acute toxicity - aquatic invertebrates	Crustacea EC50 Daphnia 19.8mg/l, 48 hours.
Acute toxicity - aquatic plants	Algae EC50 >100mg/l, 72 hours.

## 12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable.

## Ecological information on ingredients.

### 1,5-PENTANEDIAMINE, 2-METHYL

Persistence and degradability	The substance is readily biodegradable.
12.3. Bioaccumulative potentia	<u>al</u>
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	(n-Octanol/Water) <1
12.4. Mobility in soil	
Mobility	The product is miscible with water and may spread in water systems.
12.5. Results of PBT and vPvE	3 assessment
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB. This substance is not classified as PBT or vPvB according to current EU criteria.
12.6. Other adverse effects	
Other adverse effects	None known.
SECTION 13: Disposal consid	erations
13.1. Waste treatment method	
General information	When handling waste, the safety precautions applying to handling of the product should be considered.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Waste material and any included combustible absorbent and containers should be suitable for incineration at an approved facility. Note that fully cured material is not considered as hazardous waste.
SECTION 14: Transport inform	nation
14.1. UN number	
UN No. (ADR/RID)	2735
UN No. (IMDG)	2735
UN No. (ICAO)	2735
UN No. (ADN)	2735
14.2. UN proper shipping nam	e
Proper shipping name (ADR/RID)	- AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1,5-PENTANEDIAMINE, 2-METHYL)
Proper shipping name (IMDG)	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1,5-PENTANEDIAMINE, 2-METHYL)

Proper shipping name (ICAO)AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1,5-PENTANEDIAMINE, 2-METHYL)Proper shipping name (ADN)AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 1,5-PENTANEDIAMINE, 2-METHYL)

14.3. Transport hazard class(es)	
ADR/RID class	8
ADR/RID classification code	C7
ADR/RID label	8
IMDG class	8
ICAO class/division	8

Transport labels



**ADN class** 

14.4. Packing group	
ADR/RID packing group	I
IMDG packing group	I
ICAO packing group	I
ADN packing group	I

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

8

#### 14.6. Special precautions for user

IMDG Code segregation group	18. Alkalis
EmS	F-A, S-B
ADR transport category	1
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	88
Tunnel restriction code	(E)
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	
Transport in bulk according to Annex II of MARPOL 73/78	Not applicable.

and the IBC Code

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.
Guidance	Workplace Exposure Limits EH40. Respiratory protective equipment at work (HSG53).

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ATE: Acute Toxicity Estimate. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. DMEL: Derived Minimal Effect Level. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
General information	For professional users only. The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	06/10/2021
Revision	6
Supersedes date	27/10/2020
SDS number	12286
Hazard statements in full	<ul> <li>H302 Harmful if swallowed.</li> <li>H312 Harmful in contact with skin.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H315 Causes skin irritation.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> </ul>

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 of 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 user's responsibility to satisfy himself as to the suitability of such information for his own particular use.