SAFETY DATA SHEET
COLPOR 200PF BASE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name COLPOR 200PF BASE

Product number 1138120UK9,A1139065UK9

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Two-component, isocyanate-based sealant.

1.3. Details of the supplier of the safety data sheet

Supplier

FOSROC Limited
Drayton Manor Business Park
Coleshill Road
Tamworth
Staffordshire
B78 3XN
enquiryuk@fosroc.com
Tel. +44 (0) 1827 262222
Fax. +44 (0) 1827 262444

1.4. Emergency telephone number

Emergency telephone +44 (0) 1827 265 279 (08.30 to 17.00hrs Mon - Thu; 0.8.30 to 16.00hrs Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1B - H350 Repr. 2 - H361 Lact. - H362 STOT RE 2 - H373

Environmental hazards Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC) Carc. Cat. 2;R45. N;R50/53. R64,R66.

Human health Contains a substance which may be potentially carcinogenic.

Environmental The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Pictogram

COLPOR 200PF BASE

Signal word	Danger
Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H362 May cause harm to breast-fed children. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe vapour/spray. P261 Avoid breathing vapour/spray. P263 Avoid contact during pregnancy/while nursing. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/container in accordance with national regulations.
Contains	CHLORINATED PARAFFIN (C14-17), CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL, CASTOR OIL No 1

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

CHLORINATED PARAFFIN (C14-17) **10-30%**

CAS number: 85535-85-9 EC number: 287-477-0 REACH registration number: 01-2119519269-33-xxxx

M factor (Chronic) = 100

Classification
Lact. - H362
Aquatic Chronic 1 - H410

COLPOR 200PF BASE

CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL		10-30%
CAS number: 90640-84-9	EC number: 292-605-3	REACH registration number: 01-2119548393-35-0000

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Muta. 2 - H341
Carc. 1B - H350
STOT RE 2 - H373
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

CASTOR OIL No 1		1-5%
CAS number: 8001-79-4	EC number: 232-293-8	

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Repr. 2 - H361

Classification (67/548/EEC or 1999/45/EC)
-

QUARTZ (RESPIRABLE CRYSTALLINE SILICA)	<1%
CAS number: 14808-60-7	

Classification
Eye Irrit. 2 - H319
STOT RE 1 - H372

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 measures

General information CAUTION! First aid personnel must be aware of own risk during rescue!

Inhalation 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. Get medical attention immediately. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Rinse nose, mouth and throat with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

4.2. Most important symptoms and effects, both acute and delayed

COLPOR 200PF BASE

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Irritation of nose, throat and airway.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Prolonged skin contact may cause redness and irritation. May cause sensitisation by skin contact.
Eye contact	Prolonged contact may cause redness and/or tearing.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. Treat symptomatically. If in doubt, get medical attention promptly. Persons with rash are directed to skin expert for examination of allergic eczema.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with the following media: Foam. Carbon dioxide (CO_2). Dry chemicals, sand, dolomite etc.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Hydrocarbons. Hydrogen chloride (HCl).

5.3. Advice for firefighters

Protective actions during firefighting	Move containers from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Avoid inhalation of vapours/spray and contact with skin and eyes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. To prevent release, place container with damaged side up. Collect and dispose of spillage as indicated in Section 13.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8. For waste disposal, see section 13.

COLPOR 200PF BASE

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Use barrier creams to prevent skin contact. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Toxic 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 limits

CALCIUM CARBONATE (STEARATE COATED)

Long-term exposure limit (8-hour TWA): WEL 10 mg/m3 Inhal. Dust 4 mg/m3 Resp. Dust

ALUMINOSILICATE ZEOLITE A

Long-term exposure limit (8-hour TWA): MEL 10 mg/m3 Inhal. Dust 4 mg/m3 Resp. Dust

QUARTZ (RESPIRABLE CRYSTALLINE SILICA)

Long-term exposure limit (8-hour TWA): WEL 0,1 mg/m³

SILICA (HYDROPHOBIC)

Long-term exposure limit (8-hour TWA): WEL 4 mg/m3 Inhal. Dust 10 mg/m3 Resp. Dust

WEL = Workplace Exposure Limit

CHLORINATED PARAFFIN (C14-17) (CAS: 85535-85-9)

DNEL
Industry - Inhalation; Long term systemic effects: 1.6 mg/m³
Industry - Dermal; Long term systemic effects: 47.9 mg/kg/day
Consumer - Oral; Long term systemic effects: 0.58 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 2 mg/m³
Consumer - Dermal; Long term systemic effects: 28.75 mg/kg/day

PNEC
- Fresh water; 1000 mg/l
- Marine water; 200 mg/l
- STP; 80 mg/l

CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL (CAS: 90640-84-9)

Biological limit values 4µmol 1-hydroxypyrene/mol creatinine in urine, 4µmol 1-hydroxypyrene/mol creatinine in urine, 4µmol 1-hydroxypyrene/mol creatinine in urine

DNEL
Professional - Inhalation; Short term systemic effects: 51 mg/m³
Professional - Dermal; Long term systemic effects: 1.06 mg/kg/day
Professional - Inhalation; Long term systemic effects: 1.2 mg/m³
Professional - Inhalation; Short term local effects: 12 mg/m³
Professional - Inhalation; Long term local effects: 1.9 mg/m³

PNEC	- Fresh water; 3.8 µg/l - Marine water; 3.8 µg/l - Intermittent release; 0.14 mg/l - STP; 0.5 mg/l - Sediment (Freshwater); 0.16 mg/kg - Sediment (Marinewater); 1.6 mg/kg - Soil; 0.19 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate general and local exhaust ventilation. 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 and face shield.
Hand protection	Wear protective gloves made of the following material: Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC). Laminate of polyethylene and ethylene vinyl alcohol (PE/EVOH).
Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Hygiene measures	Provide eyewash station. Use appropriate skin cream to prevent drying of skin. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Do not smoke in work area. Contaminated clothing should be placed in a closed container for disposal or decontamination. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection may be required if excessive airborne contamination occurs. It is recommended to use respiratory equipment with combination filter, type A2/P2.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Paste.
Colour	Black.
Odour	Aromatic. Hydrocarbons.
Odour threshold	Not determined.
pH	Not applicable.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not determined.
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Flammability (solid, gas)	Not determined.

Upper/lower flammability or explosive limits	Not determined.
Other flammability	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.41 @ 25°C
Bulk density	Not determined.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	35000 - 50000 mPa s @ °C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Isocyanates.

10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not known. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents.

10.5. Incompatible materials

Materials to avoid	Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General information	Known or suspected carcinogen for humans.

COLPOR 200PF BASE

Inhalation	Irritating to respiratory system.
Ingestion	Toxic if swallowed.
Skin contact	May cause sensitisation by skin contact. Irritating to skin.
Eye contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.
Route of entry	Ingestion. Skin and/or eye contact
Target organs	Eyes Skin

Toxicological information on ingredients.

CHLORINATED PARAFFIN (C14-17)

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} >2000 mg/kg, Oral, Rat

CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	2,000.0
Species	Rat
Notes (oral LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rat
Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	0.4
Species	Rat
Notes (inhalation LC_{50})	Estimated value. Based on available data the classification criteria are not met.
ATE inhalation (vapours mg/l)	0.4

Skin corrosion/irritation

Animal data	Erythema/eschar score: Well defined erythema (2). Oedema score: Moderate oedema - raised approximately 1 mm (3). Irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation	There is no evidence that the material can lead to respiratory hypersensitivity.

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Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: May cause sensitisation by skin contact.

Germ cell mutagenicity

Genotoxicity - in vitro May induce heritable mutations in the germ cells of humans.

Carcinogenicity

Carcinogenicity NOAEL 140 mg/kg/day, Oral, Mouse Estimated value. May cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility Conclusive data but not sufficient for classification.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 50 mg/kg, Oral, Rat Estimated value.

Target organs Respiratory system, lungs

Aspiration hazard

Aspiration hazard Kinematic viscosity ≤ 20.5 mm²/s. May be fatal if swallowed and enters airways.

SECTION 12: Ecological Information

Ecotoxicity The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Toxicity Very toxic to aquatic organisms.

Ecological information on ingredients.

CHLORINATED PARAFFIN (C14-17)

Acute toxicity - fish LC_{50}, 96 hours: >5000 mg/l, Fish

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: 0.006 mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic) 100

CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL

Acute toxicity - fish LL50, 96 hours, 96 hours: 79 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EL50, 48 hours, 48 hours: 2.7 mg/l, Daphnia magna

Acute toxicity - aquatic plants EL50, 72 hours, 72 hours: 25 mg/l, Freshwater algae
NOELR, 72 hours, 72 hours: 12 -15 mg/l, Freshwater algae

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Acute toxicity - microorganisms	EL50, 3 hours, 3 hours: 670 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability The product contains substances which are not expected to be biodegradable.

Ecological information on ingredients.

CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL

Persistence and degradability	The product contains persistent (not readily degradable) substances.
Stability (hydrolysis)	No significant reaction in water.
Biodegradation	No biodegradation observed under test conditions.

12.3. Bioaccumulative potential

Bioaccumulative potential The product contains potentially bioaccumulating substances.

Partition coefficient Not determined.

Ecological information on ingredients.

CHLORINATED PARAFFIN (C14-17)

Bioaccumulative potential	BCF: < 2000 L/kg,

CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL

Bioaccumulative potential	BCF: < 220, Freshwater fish
Partition coefficient	log Pow: ~ 3.8

12.4. Mobility in soil

Mobility The product is insoluble in water.

Ecological information on ingredients.

CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL

Mobility	The product has poor water-solubility. Not considered mobile.
Adsorption/desorption coefficient	Soil - log Koc: ~ 3 @ °C Estimated value.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

CHLORINATED PARAFFIN (C14-17)

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.

CREOSOTE OIL, ACENAPHTHENE FRACTION; WASH OIL

COLPOR 200PF BASE

Results of PBT and vPvB assessment	The data show that the properties of the substance do not allow a direct comparison with all the criteria in Annex XIII. The substance is not considered PBT/vPvB.

12.6. Other adverse effects

Other adverse effects No information required.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Reuse or recycle products wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORINATED PARAFFIN (C14-17); CREOSOTE OIL, ACENAPHTHENE FRACTION)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORINATED PARAFFIN (C14-17); CREOSOTE OIL, ACENAPHTHENE FRACTION)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORINATED PARAFFIN (C14-17); CREOSOTE OIL, ACENAPHTHENE FRACTION)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORINATED PARAFFIN (C14-17); CREOSOTE OIL, ACENAPHTHENE FRACTION)

14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID subsidiary risk

ADR/RID label 9

IMDG class 9

IMDG subsidiary risk

ICAO class/division 9

ICAO subsidiary risk

Transport labels

14.4. Packing group

ADR/RID packing group III

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IMDG packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

EmS	F-A, S-F
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

EU legislation	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). 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). Commission Regulation (EU) No 453/2010 of 20 May 2010.
Guidance	Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131.
Authorisations (Title VII Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Title VIII Regulation 1907/2006)	Restrictions apply to the use off Anthracene oil (CAS No. 90640-80-5) in products intended for the treatment of wood (Regulation (EC) No. 1907/2006 Annex XVII).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Training advice	Those who are employed in the use of this product must be given training which highlights the neeed to handle and use it only in the recommended manner and at all times make use of the prescribed personal protection equipment.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	18/07/2016

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Revision	6
Risk phrases in full	R36 Irritating to eyes. R45 May cause cancer. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R64 May cause harm to breastfed babies. R66 Repeated exposure may cause skin dryness or cracking.
Hazard statements in full	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H362 May cause harm to breast-fed children. H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

SAFETY DATA SHEET

COLPOR 200PF CURING AGENT

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name COLPOR 200PF CURING AGENT

Product number 1138180UK9, A1139106UK9

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Hardener component for two-part isocyanate-based sealant

1.3. Details of the supplier of the safety data sheet

Supplier

FOSROC Limited
Drayton Manor Business Park
Coleshill Road
Tamworth
Staffordshire
B78 3XN
Tel. +44 (0) 1827 262222
Fax. +44 (0) 1827 262444
enquiryuk@fosroc.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1827 265 279 (08.30 to 17.00hrs Mon - Thu; 08.30 to 16.00hrs Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Not Classified

Health hazards

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 Lact. - H362 STOT SE 3 - H335 STOT RE 2 - H373

Environmental hazards

Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC)

Xn;R48/20. Carc. Cat. 3;R40. R42/43. N;R50/53.

Human health

Contains non-volatile isocyanate. Heating may generate vapours which irritate the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Environmental

The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements

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.
H351 Suspected of causing cancer by inhalation.
H362 May cause harm to breast-fed children.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe vapour/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/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.
P308+P313 IF exposed or concerned: Get medical advice/attention.

Contains CHLORINATED PARAFFIN (C14-17), DIPHENYLMETHANE DIISOCYANATE

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

CHLORINATED PARAFFIN (C14-17) **60-100%**

CAS number: 85535-85-9 **EC number:** 287-477-0 **REACH registration number:** 01-2119519269-33-xxxx
M factor (Chronic) = 100

Classification	Classification (67/548/EEC or 1999/45/EC)
Lact. - H362	N;R50/53. R64,R66.
Aquatic Chronic 1 - H410	

DIPHENYLMETHANE DIISOCYANATE **10-30%**

CAS number: 9016-87-9 **EC number:** –

Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H332	Xn;R20,R48/20. Carc. Cat. 3;R40. Xi;R36/37/38. R42/43.
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
Carc. 2 - H351	
STOT SE 3 - H335	
STOT RE 2 - H373	

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 measures

General information
Immediately remove contaminated clothing. Contaminated clothing and shoes must be discarded.

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
DO NOT induce vomiting. Get medical attention immediately. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical.

Skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water. In case of eczema or other skin disorders: Seek medical attention and bring these instructions.

Eye contact

Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

General information

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Treat symptomatically. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

Upper respiratory irritation. May cause sensitisation by inhalation.

Ingestion

May cause discomfort if swallowed.

Skin contact

Skin irritation. May cause sensitisation by skin contact.

Eye contact

May cause severe eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor

No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with foam, carbon dioxide or dry powder. Larger fires: Water spray.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products

Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO_2). Oxides of nitrogen. Isocyanate vapours. Hydrogen cyanide (HCN).

5.3. Advice for firefighters

Protective actions during firefighting

Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet. Use suitable respiratory protection if ventilation is inadequate. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Environmental precautions

Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Stop leak if possible without risk. DO NOT touch spilled material! Clean-up personnel should use respiratory and/or liquid contact protection.
Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb in vermiculite, dry sand or earth and place into containers. Inform
Authorities if large amounts are involved. Do not seal the containers. Keep damp and in the open air for at least seven days.

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 inhalation of vapours. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product. Contaminated clothing and shoes must be discarded.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry and cool place. Store at temperatures not exceeding 50°C. Protect against direct sunlight.

Storage class

Chemical 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 limits

DIPHENYLMETHANE DIISOCYANATE

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m3
Short-term exposure limit (15-minute): WEL 0.07 mg/m3

WEL = Workplace Exposure Limit

CHLORINATED PARAFFIN (C14-17) (CAS: 85535-85-9)

DNEL	Industry - Inhalation; Long term systemic effects: 1.6 mg/m3 Industry - Dermal; Long term systemic effects: 47.9 mg/kg/day Consumer - Oral; Long term systemic effects: 0.58 mg/kg/day Consumer - Inhalation; Long term systemic effects: 2 mg/m3 Consumer - Dermal; Long term systemic effects: 28.75 mg/kg/day
PNEC	- Fresh water; 1000 mg/l - Marine water; 200 mg/l - STP; 80 mg/l

8.2. Exposure controls

Protective equipment

Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Wear tight-fitting, 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. Wear protective gloves made of the following material: Butyl rubber. Nitrile rubber. Viton rubber (fluoro rubber).

Hygiene measures

Provide eyewash station and safety shower. Discard contaminated shoes and clothing. Do not smoke in work area. Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.

Respiratory protection

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If ventilation is inadequate, suitable respiratory protection must be worn. When spraying, wear a suitable supplied-air respirator. For short periods, a combination of charcoal filter and particulate filter is recommended.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Viscous liquid.

Colour
Brown.

Odour
Musty (mouldy).

Initial boiling point and range
>200°C @ 1 atm

Flash point
>180°C

Relative density
1.25 @ 25°C

Solubility(ies)
Insoluble in water.

9.2. Other information

Other information
Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The following materials may react with the product: Acids. Amines. Alcohols, glycols. The following materials may react strongly with the product: Alkaline earth metals. Powdered metal.

10.2. Chemical stability

Stability
Will decompose at temperatures exceeding 200°C.

10.3. Possibility of hazardous reactions

May polymerise. Polymerises above 200°C with evolution of CO2

10.4. Conditions to avoid

Avoid contact with strong oxidising agents. Avoid heat.

10.5. Incompatible materials

Materials to avoid
Alkali metals. Alkaline earth metals.

10.6. Hazardous decomposition products

Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)
2,000

Species
Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 dust/mist mg/l)
0.49

Species
Rat

The substance was tested in a form that is different from the forms in which the substance is placed on the market and which it can reasonably be expected to be used. Therefore a modified classification is justified.

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ATE inhalation (dusts/mists mg/l)
9.97340426

Toxicological information on ingredients.

CHLORINATED PARAFFIN (C14-17)

Acute toxicity - oral

LD >2000 mg/kg, Oral, Rat

DIPHENYLMETHANE DIISOCYANATE

Acute toxicity - oral

LD >10000 mg/kg, Oral, Rat

Acute toxicity - dermal

LD >9400 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 dust/mist mg/l)
0.31

Species
Rat

The substance was tested in a form that is different from the forms in which the substance is placed on the market and which it can reasonably be expected to be used. Therefore a modified classification is justified.

ATE inhalation (dusts/mists mg/l)
1.5

Skin sensitisation
Local Lymph Node Assay (LLNA) - Mouse: Sensitising.

Carcinogenicity

IARC carcinogenicity
IARC Group 3 Not classifiable as to its carcinogenicity to humans.

SECTION 12: Ecological Information

Ecotoxicity
The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

LC50 (96h):> 1000 mg/l

Ecological information on ingredients.

CHLORINATED PARAFFIN (C14-17)

Acute toxicity - fish
LC , 96 hours: >5000 mg/l, Fish

Acute toxicity - aquatic invertebrates
EC , 48 hours: 0.006 mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic)
100

DIPHENYLMETHANE DIISOCYANATE

Acute toxicity - fish
LC , 96 hours: > 1000 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates
EC , 48 hours: > 1000 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC , 72 hours: >1640 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms
EC , 3 hours: >100 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability

The product is not readily biodegradable.

Ecological information on ingredients.

DIPHENYLMETHANE DIISOCYANATE

Persistence and degradability
The product is not biodegradable.

Stability (hydrolysis)
- Half-life : 20 hours @ 25°C Hydrolyses rapidly in water.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Ecological information on ingredients.

CHLORINATED PARAFFIN (C14-17)

BCF: < 2000 L/kg,

DIPHENYLMETHANE DIISOCYANATE

Reacts with water.

12.4. Mobility in soil

Mobility
The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

CHLORINATED PARAFFIN (C14-17)

This product does not contain any substances classified as PBT or vPvB.

DIPHENYLMETHANE DIISOCYANATE

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information
Waste is classified as hazardous waste.

Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class
For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (ADN)	3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORINATED PARAFFIN (C14-17))
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORINATED PARAFFIN (C14-17))
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORINATED PARAFFIN (C14-17))

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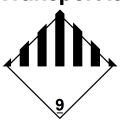
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORINATED PARAFFIN (C14-17))

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

Yes.

14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation

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).

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments

COLPOR 200PF CURING AGENT

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 04/05/2015

Revision 3

SDS number 12430

Risk phrases in full

R20 Harmful by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.
R40 Limited evidence of a carcinogenic effect.
R42/43 May cause sensitisation by inhalation and skin contact.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R64 May cause harm to breastfed babies.
R66 Repeated exposure may cause skin dryness or cracking.

Hazard statements in full

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 by inhalation.
H362 May cause harm to breast-fed children.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
H373 May cause damage to organs (Respiratory system, lungs) through prolonged or repeated exposure if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

Disclaimer

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.