Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# watco<sup>®</sup> SAFETY DATA SHEET

**Concrex Vertical - Curing Agent** 

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

- **1.1 Product identifier**
- Product name Product description

Product type

UFI

- : Concrex Vertical Curing Agent
- : repair product
  - : Liquid.
    - : C8N0-A0JE-A000-H5RS

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

Identified uses			
Consumer use Professional use Industrial use			
Uses advised against		Reaso	n
None identified.		-	

# 1.3 Details of the supplier of the safety data sheet

Watco UK Limited
Eastgate Court
195-205 High Street
Guildford
Surrey
GU1 3EH
Telephone no.: +44 (0) 1483 425000 (08:00 - 18:00)
Fax no.: +44 (0) 1483 428888
e-mail address of person : rpmeurohas@rustoleum.eu responsible for this SDS

# 1.4 Emergency telephone number

# National advisory body/Poison Centre

Telephone number Ireland	: 809 2166 Available 8am to 10pm 7 days per week
<u>Supplier</u>	
Telephone number Ireland	: +353 19014670
Hours of operation	: 24/7

# **SECTION 2: Hazards identification**

2.1	Classification	of the	substance	or mixture

Product definition : Mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361 STOT RE 1, H372 Aquatic Chronic 2, H411 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Concrex Vertical - Curing Agent

# **SECTION 2: Hazards identification**

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

# 2.2 Label elements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	<ul> <li>H314 - Causes severe skin burns and eye damage.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H361 - Suspected of damaging fertility or the unborn child.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements		
General	:	P103 - Read carefully and follow all instructions. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	:	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapour.</li> </ul>
Response	:	<ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON</li> <li>CENTER or doctor. Rinse mouth. Do NOT induce vomiting.</li> <li>P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.</li> <li>P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.</li> </ul>
Storage	:	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Fatty acids, tall oil, reaction products with tetraethylenepentamine Phenol, styrenated 2-piperazin-1-ylethylamine tetraethylenepentamine
Supplemental label elements	:	EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Supplemental label elements : Detergents - Regulation (EC) No 907/2006	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles <u>Special packaging requirem</u>		Not applicable.
<u>opeeiai paekayiiiy requitett</u>	101	

# **SECTION 2: Hazards identification**

Containers to be fitted: Yes, applicable.with child-resistantfasteningsTactile warning of danger: Yes, applicable.

# 2.3 Other hazards

#### Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

%

≥50 - ≤75

Classification

Skin Sens. 1, H317

Aquatic Chronic 2,

**L**111

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do : None known. not result in classification

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures Ireland	: Mixture	
Product/ingredient name	Identifiers	
Fatty acids, tall oil, reaction products with tetraethylenepentamine	EC: 273-201-6 CAS: 68953-36-6	
Phenol, styrenated	REACH #: 01-2119980970-27 EC: 262-975-0 CAS: 61788-44-1	
2-piperazin-1-ylethylamine	REACH #: 01-2119471486-30 EC: 205-411-0 CAS: 140-31-8	

			See Section 16 for the full text of the H statements declared above.		
tetraethylenepentamine	REACH #: 01-2119487290-37 EC: 203-986-2 CAS: 112-57-2 Index: 612-060-00-0	≤3	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg	[1]
2-piperazin-1-ylethylamine	REACH #: 01-2119471486-30 EC: 205-411-0 CAS: 140-31-8 Index: 205-411-0	≥10 - ≤25	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361 STOT RE 1, H372 Aquatic Chronic 3, H412	ATE [Oral] = 1470 mg/kg ATE [Dermal] = 866 mg/kg	[1]
Phenol, styrenated	REACH #: 01-2119980970-27 EC: 262-975-0 CAS: 61788-44-1	≥10 - ≤25	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
tetraethylenepentamine			H411		

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

Occupational exposure limits, if available, are listed in Section 8.

<u>Type</u>

**Specific Conc.** 

and ATEs

Limits, M-factors

Туре

[1]

Concrex Vertical - Curing Agent

# **SECTION 3: Composition/information on ingredients**

[1] Substance classified with a health or environmental hazard This mixture contains ≥ 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

Occupational exposure limits, if available, are listed in Section 8.

# **SECTION 4: First aid measures**

4.1 Description of first aid m	ures	
Eye contact	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minute Chemical burns must be treated promptly by a physician.	
Inhalation	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate ma or self-contained breathing apparatus. If not breathing, if breathing is irregular or it respiratory arrest occurs, provide artificial respiration or oxygen by trained personn It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
Skin contact	Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated prompti by a physician. In the event of any complaints or symptoms, avoid further exposur Wash clothing before reuse.	
Ingestion	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and th exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treate promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	l d
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If i is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	

# 4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

# SECTION 4: First aid measures Skin contact : Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations Ingestion : Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. **Specific treatments** : No specific treatment. SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

# 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

# **SECTION 6: Accidental release measures**

For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for o	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance.

# 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Seveso Directive - Reporting thresholds

# Danger criteria

Date of issue/Date of revision

Concrex Vertical - Curing Agent

# SECTION 7: Handling and storage Category Notification and MAPP threshold Safety report threshold E2 200 tonne 500 tonne

# 7.3 Specific end use(s)

**Recommendations** 

Not available.Not available.

Industrial sector specific solutions

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

# 8.1 Control parameters

**Occupational exposure limits** 

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

No DNELs/DMELs available.

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
titanium dioxide	Fresh water	0,127 mg/l	-
	Marine	>1 mg/l	-
	Sewage Treatment	>100 mg/l	-
	Plant		
	Fresh water sediment	>1000 mg/kg	-
	Marine water sediment	>100 mg/kg	-
	Soil	100 mg/kg	-
	Marine water	0,0184 mg/l	-
	Fresh water	0,184 mg/l	-

8.2 Exposure controls Appropriate engineering : If user controls enclose

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

# Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# **SECTION 8: Exposure controls/personal protection**

<ul> <li>Eye/face protection</li> <li>Safety eyewear complying with an approved standard should be used wh assessment indicates this is necessary to avoid exposure to liquid splash gases or dusts. Use eye protection according to EN 166. If contact is postfollowing protection should be worn, unless the assessment indicates a h degree of protection: chemical splash goggles and/or face shield. If inha hazards exist, a full-face respirator may be required instead. Recomment safety glasses with side-shields</li> </ul>
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#### **Skin protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Hand protection	hemical-resistant, impervious gloves complying with an e worn at all times when handling chemical products if a is is necessary. Considering the parameters specified neck during use that the gloves are still retaining their p hould be noted that the time to breakthrough for any glo fferent for different glove manufacturers. In the case of everal substances, the protection time of the gloves car stimated. > 8 hours (breakthrough time): nitrile rubber	a risk assessment indicates by the glove manufacturer, rotective properties. It we material may be f mixtures, consisting of
	ne recommendation for the type or types of glove to use oduct is based on information from the following source neck that the final choice of type of glove selected for ha ost appropriate and takes into account the particular co cluded in the user's risk assessment.	e: EN374. The user must andling this product is the
Body protection	ersonal protective equipment for the body should be se eing performed and the risks involved and should be ap efore handling this product. Recommended: (EN 467) ( eck and wrist.	proved by a specialist
Other skin protection	opropriate footwear and any additional skin protection n elected based on the task being performed and the risk oproved by a specialist before handling this product.	
Respiratory protection	ased on the hazard and potential for exposure, select a opropriate standard or certification. Respirators must b spiratory protection program to ensure proper fitting, tra spects of use. Recommended: organic vapour (Type A 11)	e used according to a aining, and other important
Environmental exposure controls	missions from ventilation or work process equipment sh nsure they comply with the requirements of environmen some cases, fume scrubbers, filters or engineering mo quipment will be necessary to reduce emissions to acce	tal protection legislation. odifications to the process

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

# 9.1 Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: Grey.
Odour	: Ammoniacal.
Odour threshold	: Not available.

Concrex Vertical - Curing Agent

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

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Melting point/freezing point	:	Not available.	
Initial boiling point and boiling range	1	Not relevant due to nature of the product.	
Flammability (solid, gas)	:	Not available.	
Lower and upper explosion limit	1	Not available.	
Flash point	:	Closed cup: >100°C (>212°F) [Literature]	
Auto-ignition temperature	1	Not relevant due to nature of the product.	
Decomposition temperature	1	Not available.	
рН	:	>11 [Literature]	
pH : Justification	: Not available.		
Viscosity	1	Dynamic: >450 mPa⋅s [Literature]	
Solubility(ies)	:		
Media		Result	
cold water		Not soluble	
hot water		Not soluble	
Solubility in water	:	Not available.	
Miscible with water	:	No.	
Partition coefficient: n-octanol/ water	:	Not applicable.	

# Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
2-piperazin-1-ylethylamine	0,04	0,0053					
Evaporation rate	: Not	available.					
Relative density	: Not	available.					
Density	: 1,07	74 g/cm³ [20	)°C (68°F)] [DIN 5	53217]			
Vapour density	: Not	available.					
Explosive properties	: Not	available.					

	i not available.
Oxidising properties	: Not available.
Particle characteristics	

# SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.			
10.2 Chemical stability	: The product is stable.			
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.			
10.4 Conditions to avoid	: No specific data.			
10.5 Incompatible materials	: Reactive or incompatible with the following materials: acids			

Median particle size

: Not applicable.

Concrex Vertical - Curing Agent

# **SECTION 10: Stability and reactivity**

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

# Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Phenol, styrenated	LD50 Dermal	Rabbit	>5010 mg/kg	-
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	2500 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
2-piperazin-1-ylethylamine	LD50 Dermal	Rabbit	880 mg/kg	-
	LD50 Dermal	Rabbit	880 uL/kg	-
	LD50 Dermal	Rat	866 mg/kg	-
	LD50 Oral	Rat	1470 mg/kg	-
	LD50 Oral	Rat	2140 mg/kg	-
tetraethylenepentamine	LD50 Oral	Rat	2140 mg/kg	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

# Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Phenol, styrenated	2500	N/A	N/A	N/A	N/A
2-piperazin-1-ylethylamine	1470	866	N/A	N/A	N/A
tetraethylenepentamine	500	1100	N/A	N/A	N/A

# Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phenol, styrenated	Eyes - Mild irritant	Rabbit	-	0.1 Mililiters	-
	Skin - Mild irritant	Rabbit	-	0.5 Mililiters	-
2-piperazin-1-ylethylamine	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 5 milligrams	-
tetraethylenepentamine	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	5 milligrams	-
	Skin - Severe irritant	Rabbit	-	495	-
				milligrams	
	Skin - Severe irritant	Rabbit	-	24 hours 5 milligrams	-

<b>Conclusion/Summary</b>	
Skin	: Causes severe skin burns and eye damage.
Eyes	: Causes serious eye damage.
Respiratory	: Causes damage to organs through prolonged or repeated exposure.
Sensitisation	
<b>Conclusion/Summary</b>	
Skin	: May cause an allergic skin reaction.
Respiratory	: Based on available data, the classification criteria are not met.
Mutagenicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	

Date of issue/Date of revision

Concrex Vertical - Curing Agent

# **SECTION 11: Toxicological information**

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

#### **Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Reproductive toxicity** 

**Conclusion/Summary** : Suspected of damaging the unborn child. Suspected of damaging fertility.

#### **Teratogenicity**

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

# Specific target organ toxicity (single exposure)

Not available.

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
2-piperazin-1-ylethylamine	Category 1	-	-

# **Aspiration hazard**

Not available.

Potential acute health effectsEye contact: Causes serious eye damage.Inhalation: No known significant effects or critical hazards.Skin contact: Causes severe burns. May cause an allergic skin reaction.Ingestion: No known significant effects or critical hazards.Symptoms related to the physical, chemical and toxicological characteristicsEye contact: Adverse symptoms may include the following: pain watering rednessInhalation: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformationsSkin contact: Adverse symptoms may include the following: redness
Inhalation: No known significant effects or critical hazards.Skin contact: Causes severe burns. May cause an allergic skin reaction.Ingestion: No known significant effects or critical hazards.Symptoms related to the physical, chemical and toxicological characteristicsEye contact: Adverse symptoms may include the following: pain watering rednessInhalation: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformationsSkin contact: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformationsSkin contact: Adverse symptoms may include the following: redness
Skin contact       : Causes severe burns. May cause an allergic skin reaction.         Ingestion       : No known significant effects or critical hazards.         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       : Adverse symptoms may include the following: pain watering redness         Inhalation       : Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations         Skin contact       : Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion: No known significant effects or critical hazards.Symptoms related to the physical, chemical and toxicological characteristicsEye contact: Adverse symptoms may include the following: pain watering rednessInhalation: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformationsSkin contact: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       : Adverse symptoms may include the following: pain watering redness         Inhalation       : Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations         Skin contact       : Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact: Adverse symptoms may include the following: pain watering rednessInhalation: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformationsSkin contact: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
pain watering rednessInhalation: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformationsSkin contact: Adverse symptoms may include the following: pain or irritation redness
reduced foetal weight increase in foetal deaths skeletal malformations         Skin contact       : Adverse symptoms may include the following: pain or irritation redness
pain or irritation redness
blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion : Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Short term exposure
Potential immediate : Not available. effects

Date of issue/Date of revision

# SECTION 11: Toxicological information Potential delayed effects : Not available. Long term exposure Potential immediate : Not available. effects Potential delayed effects : Not available. Potential delayed effects : Not available. Potential delayed effects : Not available. Potential delayed effects : Not available.

Not available.

Conclusion/Summary	: Based on available data, the classification criteria are not met.
General	<ul> <li>Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.

# 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties** 

Not available.

# **11.2.2 Other information**

Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-piperazin-1-ylethylamine	Acute LC50 2190000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Conclusion (Summony			

**Conclusion/Summary** : Toxic to aquatic life with long lasting effects.

# 12.2 Persistence and degradability

**Conclusion/Summary** 

: This product has not been tested for biodegradation. Based on available data, the classification criteria are not met.

# 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
2-piperazin-1-ylethylamine	-1,48	-	low

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Non-volatile.

# 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

Concrex Vertical - Curing Agent

# SECTION 12: Ecological information

# 12.7 Other adverse effects

No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance.

# **13.1 Waste treatment methods**

#### **Product** Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Yes.

**Hazardous waste** 

# European waste catalogue (EWC)

Waste code	Waste designation
20 01 27*	paint, inks, adhesives and resins containing hazardous substances
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

#### SECTION 14: Transport information **ADR/RID ADN** IMDG ΙΑΤΑ UN2735 UN2735 14.1 UN number UN2735 UN2735 or ID number 14.2 UN proper Polvamines, liquid, Polvamines, liquid, Polvamines, liquid. Polvamines, liquid. corrosive. N.O.S. corrosive. N.O.S. corrosive. N.O.S. corrosive, N.O.S. shipping name (2-piperazin-(2-piperazin-(2-piperazin-(2-piperazin-1-ylethylamine) 1-ylethylamine) 1-ylethylamine). 1-ylethylamine) Marine pollutant (Fatty acids, tall oil, reaction products with tetraethylenepentamine) 14.3 Transport 8 8 8 8 hazard class(es) Ш Ш Ш Ш 14.4 Packing group 14.5 Yes. Yes. Yes. Yes. The **Environmental** environmentally hazardous substance hazards mark is not required.

Date of issue/Date of revision

: 18/01/2023

Concrex Vertical - Curing Agent

# **SECTION 14: Transport information**

Additional informationThe environmentally hazardous substance mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.The environmentally mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.The environmentally mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.The environmentally mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.The marine pollutant mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.The marine pollutant mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.The marine pollutant mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.The marine pollutant mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.The marine pollutant mark may appear if required by other transportation regulations.Immed code to the code to t				
Packaging instructions: 852. Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y841.	 hazardous substance mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg. <u>Limited quantity</u> : $\leq$ 5L	hazardous substance mark is not required when transported in	mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency</u> <u>schedules</u> F-A, S-B <u>Remarks</u> : ≤ 5L:	hazardous substance mark may appear if required by other transportation regulations. <b>Quantity limitation</b> Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852. Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L. Packaging

14.6 Special J	precautions for	
user		

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk	: Not available.
according to IMO	
instruments	

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
EU Regulation (EC) No. 1907/2006 (REACH)				
Annex XIV - List of substances subject to authorisation				
Annex XIV				
None of the components are listed.				
Substances of very high concern				
None of the components are listed.				
Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles				
Other EU regulations				
<ul> <li>VOC for Ready-for-Use</li> <li>Mixture</li> <li>IIA/j. Two-pack reactive performance coatings for specific end use such as floors. EU limit value for this product : 500g/l (2010.) This product contains a maximum of 10 g/l VOC.</li> </ul>				
Industrial emissions : Not listed (integrated pollution prevention and control) - Air				
Industrial emissions : Not listed (integrated pollution prevention and control) - Water				

Concrex Vertical - Curing Agent

# SECTION 15: Regulatory information Ozone depleting substances (1005/2009/EC) Not listed. Prior Informed Consent (PIC) (649/2012/EC) Not listed. Persistent Organic Pollutants (850/2004/EC) Not listed. **Seveso Directive** This product is controlled under the Seveso Directive. **Danger criteria** Category E2 **Ireland Biocidal products** : Not applicable. regulation : Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. References 619 of 2001) Safety, Health and Welfare at Work (Carcinogens) Regulations 2001 (S.I. No. 78 of 2001) Safety, Health and Welfare at Work (General Application) Regulations 2007 Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC **International regulations**

Stockholm Convention on Persistent Organic Pollutants

List name	Ingredient name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

List name		Ingredie	Ingredient name	Status			
Not listed.							
<b>CN code</b> : 3214 10 10	00	I					
Inventory list							
Australia	1	All components are listed or exempted.					
Canada	:	At least one component is not listed in DSL but all such components are listed in NDSL.			in		
China	1	All components are listed or exempted.					
<b>Eurasian Economic Union</b>	:	Russian Federation inventory: Not determined.					
Japan	:	Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined.					
New Zealand	:	All components are liste	ed or exempted.				
Philippines	:	All components are listed or exempted.					
Republic of Korea	:	All components are listed or exempted.					
Taiwan	:	All components are liste	ed or exempted.				
ate of issue/Date of revision		: 15/03/2023 Date of prev	ious issue : 18/01/202	23 Vers	sion	: 4.01	15/17

Concrex Vertical - Curing Agent

ibstances for which Chemical Safety Assessments are still

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group</li> </ul>
	vPvB = Very Persistent and Very Bioaccumulative

# Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Corr. 1, H314	Expert judgment
Eye Dam. 1, H318	Expert judgment
Skin Sens. 1, H317	Expert judgment
Repr. 2, H361	Expert judgment
STOT RE 1, H372	Expert judgment
Aquatic Chronic 2, H411	Expert judgment

# Full text of abbreviated H statements

<u>lreland</u>		
Full text of abbreviated H :	H302 Harmful if swallowed.	
statements	H311 Toxic in contact with skin.	
	H312 Harmful in contact with skin.	
	H314 Causes severe skin burns and eye damage.	
	H315 Causes skin irritation.	
	H317 May cause an allergic skin reaction.	
	H318 Causes serious eye damage.	
	H361 Suspected of damaging fertility or the unborn child.	
	H372 Causes damage to organs through prolonged or repeate	d exposure.
	H411 Toxic to aquatic life with long lasting effects.	
	H412 Harmful to aquatic life with long lasting effects.	
Full text of classifications :	Acute Tox. 3 ACUTE TOXICITY - Category 3	
[CLP/GHS]	Acute Tox. 4 ACUTE TOXICITY - Category 4	
	Aquatic LONG-TERM (CHRONIC) AQUATIC HAZARD - Ca	tegory 2
	Chronic 2	0,
	Aquatic LONG-TERM (CHRONIC) AQUATIC HAZARD - Ca	tegory 3
	Chronic 3	
	Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Categ	jory 1
	Repr. 2 REPRODUCTIVE TOXICITY - Category 2	
	Skin Corr. 1 SKIN CORROSION/IRRITATION - Category 1	
	Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B	
	Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2	
	Skin Sens. 1 SKIN SENSITISATION - Category 1	
Determine (Deterministic)		
Date of issue/Date of revision	: 15/03/2023 Date of previous issue : 18/01/2023 Versio	<b>n :</b> 4.01 16/17

Concrex Vertical - Curing Agent

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SECTION 16: Other information			
		STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
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Version	:	4.01	
Notice to reader			

IMPORTANT NOTE: The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.