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**Safety Data Sheet****John L. Lord & Son (Rizistal) Ltd**

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**1. Identification of Substance/Preparation and Company Name****EPIFLEX EPOXY JOINTING SYSTEM – HARDENER**

John L. Lord & Son (Rizistal) Limited  
Wellington Cement Works, Ainsworth Road, Bury. BL8 2RS  
Tel: 0161 764 4617 (Out of Office Hours: 01706 211204).

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**2. Composition / Information on Ingredients**

Liquid of which the following are considered hazardous:

<50% 2-piperazin-1-ylethylamine  
CAS No. 000140-31-8

Xn Harmful	R21/22	Harmful in contact with skin and if swallowed.
C Corrosive	R34	Causes burns.
	R43	May cause sensitisation by skin contact.
N Dangerous		
For the	R50	Very toxic to aquatic organisms.
Environment	R53	May cause long term adverse effects in the aquatic environment.

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**3. Hazards Identification**

Harmful in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact.

May cause long term adverse effects in the aquatic environment.

Being corrosive may damage structures and surfaces

#### **4. First Aid Measures**

<u>Entry Route</u>	<u>Symptoms</u>	<u>Treatment</u>
Inhalation	Damage to respiratory Tract. Possible severe systemic effects.	Remove to fresh air and seek medical help. Prevent aspiration of vomit.
Skin Contact	Irritation; pain; burns. Permanent injury possible.	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Seek medical help if symptoms persist.
Eye Contact	Irritation; pain; burns. Permanent injury possible.	Irrigate eye thoroughly with clean water for at least 10 minutes and seek medical advice.
Ingestion	Unlikely to occur. May cause headache Nausea, vomiting, (including blood).	Give 3-4 glasses of water or or milk. Do not induce vomiting. Gain immediate medical assistance.

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#### **5. Fire-Fighting Measures**

Suitable Extinguishers	Water spray, foam, carbon dioxide, dry powder.
Unsuitable	Water jet. Use water to keep sealed containers cool.
Hazardous Combustion Products	Toxic and irritating combustion products may be formed.
Protection For Fire Fighters	For large fires wear full protective equipment, including breathing apparatus.

## **6. Accidental Release Measures**

Personal Protection	At all elevated temperatures wear breathing apparatus. Protect skin and eyes.
Environmental Precautions	Do not allow product to enter drains or water courses.
Cleaning Up	Absorb into sand or similar material and then contain this. Wear breathing apparatus and butyl rubber protective clothing

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## **7. Handling and Storage**

Handling	Keep in its closed containers until poured for use.
Storage	Keep in its closed containers and store in cool, dry conditions and away from acids and oxidizers.

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## **8. Exposure Controls / Personal Protection**

Exposure Limits	None established.	
Protection Measures	Respiratory	Not required in normal use. Vapour mask if ventilation is poor.
	Hand	Impermeable gloves.
	Eye	Goggles.
	Skin	Overalls and boots.

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## **9. Physical Properties**

Appearance	:	Straw liquid.
Odour	:	Ammoniacal.
pH	:	Alkaline.
Boiling Point/Range	:	No data.
Melting Point/Range	:	No data.
Flash Point	:	>100°C. (closed cup).
Flammability (solid, gas)	:	Will burn in a fire
Auto flammability	:	No data.
Explosive Properties	:	No data.
Oxidising Properties	:	None.
Vapour Pressure	:	No Data.
Relative Density	:	0.95 – 1.01
Solubility	:	Insoluble with water.
Partition Coefficient : N-octanol/water.	:	No data.
Other Data	:	Viscosity – 4.0 Poise to 6.0 Poise.

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## **10. Stability and Reactivity**

Normally considered stable and inert.

Materials to Avoid	Oxidising agents; possible violent reaction with peroxides. Acids; large heat release if mixed with acids; reaction with nitrous acid, nitrites or nitrous oxide may product N-Nitrosamines (some of which are carcinogens).
Thermal Decomposition Products My Include	Toxic fumes including oxides of carbon, ammonia, NOx nitrosamines.

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## **11. Toxicological Information**

Toxological Data	Not determined but for constituents:-
2-piperazin-1-ylethylamine	Acute Oral LD <sub>50</sub> (rat) :>1470 mg/kg. Acute Dermal LD <sub>50</sub> (rabbit): >880 mg/kg.
Nonyl phenol	Acute Oral LD <sub>50</sub> (rat): 1900 mg/kg. Acute Dermal LD <sub>50</sub> (rabbit): 2140 mg/kg.

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## **12. Ecological Information**

To be considered hazardous to the environment and to be kept from water courses, waste water or oil.

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## **13. Disposal Considerations**

Product must be treated as special waste and disposed of accordingly.

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## **14. Transport Information**

UN 2735	Amines, liquid, corrosive, N.O.S. (2-piperazin-1-ylethylamine, nonylphenol).
Classification	8 Corrosive substance.
Packing Group	III.
Marine Pollutant	(nonylphenol).

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## **15. Regulatory Information**

Contains 2-piperazin-1-ylethylamine and nonylphenol..

Xi Harmful	R21/22	Harmful in contact with skin and if swallowed.
C Corrosive	R34	Causes burns.
	R43	May cause sensitisation by skin contact.
N Dangerous For the Environment	R51	Toxic to aquatic organisms.
	R53	May cause long term adverse effects in the aquatic environment.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

The product is classified under the UK Chemicals (Hazard Information and Packaging) Regulations – CHIP.

The product should be considered when making assessments under the UK Control of Substances Hazardous to Health Regulations – COSHH.

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## **16. Other Information**

The product should only be used as described in the document “COSHH Assessment” issued by John L. Lord & Son (Rizistal) Ltd.