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

1. Identification of Substance / Preparation and Company Name

RIZISTAL GROUT, EPOXY CEMENT TILE ADHESIVE - HARDENER

John L. Lord & Son (Rizistal) Limited
Wellington Cement Works, Ainsworth Road, Bury. BL8 2RS
Tel: 0161 764 4617 (Out of Office Hours: 01706 2112204).

2. Composition / Information on Ingredients

Liquid of which the following are considered hazardous:

10% - 25% Tetraethylenepentamine.
CAS No. 000112-57-2

Xn Harmful	R21/22	Harmful in contact with skin and if swallowed
C Corrosive	R34	Causes burns
	R43	May cause sensitization by skin contact
N Dangerous for the environment	R51	Toxic to aquatic organisms
	R53	May cause long term adverse effects in the aquatic environment.

10% 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 sensitization by skin contact
N Dangerous for the environment	R51	Toxic to aquatic organisms
	R53	May cause long term adverse effects in the aquatic environment.

5% - 10% Nonylphenol

Xn Harmful	R22	Harmful if swallowed
C Corrosive	R34	Causes burns
N Dangerous for the environment	R50	Very toxic to aquatic organisms
	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 sensitization by inhalation and skin contact.
May cause long term adverse effects in the aquatic environment.
Being corrosive may damage structures and surfaces.

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4. First Aid Measures

Entry Route	Symptoms	Treatment
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 May sensitise. Absorbable through the skin.	Remove contaminated mats. Wash affected skin thoroughly with soap and water. Seek medical help it 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, internal (including blood).	Give 3-4 glasses of milk or water. Do not induce vomiting. Gain immediate Medical assistance.

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 and butyl rubber boots.

6. Accidental Release Measures

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

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	Respiratory	Not required in normal use. Vapour mask if ventilation is poor.
Measures	Hand	Impermeable gloves.
	Eye	Goggles.
	Skin	Overalls and boots.

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9. Physical Properties

Appearance	:	Amber liquid.
Odour	:	Ammoniacal.
pH	:	Alkaline.
Boiling Point/Range	:	$>200^{oC.}$
Melting Point/Range	:	Not Known.
Flash Point	:	100^{o} (closed cup)
Flammability	:	Will burn in a fire.
Auto flammability	:	No Data.
Explosive Properties	:	No Data.
Oxidising Properties	:	None.
Vapour Pressure	:	<21mm HG at 70^{o}C.
Relative Density	:	c.0.95.
Solubility	:	<1% at 25^{o}C with water.
Partition Coefficient : N-octanol/water.	:	No Data.

Other Data : Viscosity – Pa.s at 25^{o}C.

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 produce N-Nitrosamines (some of which are carcinogens).
Thermal Decomposition Products May Include	Toxic fumes including oxides of carbon, ammonia, $NO_{x.}$ nitrosamines.

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11. Toxicological Information

Toxological Data

Not determined but for constituents –

Acute oral LD_{50} (rat):>4750mg/kg;>1000mg/kg.
Acute dermal LD_{50} (rabbit): 8550mg/kg;>1000mg/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 soil.

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13. Disposal Considerations

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

14. Transport Information

UN2735	:	Amines, liquid, corrosive, N.O.S. (tetraethylenepentamine, 2-piperazin-l-ylethylamine, nonylphenol).
Classification	:	8 Corrosive Substance.
Packing Group	:	III.

Marine Pollutant (Nonylphenol).

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15. Regulatory Information

Contains tetraethylenepentamine, 2-piperazin-l-ylethylamine and nonylphenol.

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	R43	May cause sensitization by skin contact.
N Dangerous (for the environment)	R51	Toxic to aquatic organisms.
	R53	May cause long term adverse effects in the aquatic environment.

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.