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MATERIAL SAFETY DATA SHEET

Section 1.	Identification of Substance / Preparation: T4 DNA Ligase (<i>E coli</i>) Enzyme in buffer solution and buffers/solution for use with T4 DNA Ligase. Catalogue Number: DNL1001, TDL1, TDL2 and TDL3C
Section 2:	Composition / Information on Ingredients:
	Each product package contains an aqueous solution and the volume contained therein varies
	from 0.02-1ml.
	1) T4 DNA Ligase (<u>E coli)</u>
	Catalogue Numbers DNL1001, TDL1, TDL2 and TDL3C
	Active Ingredient: T4 DNA Ligase Enzyme, CAS: None (EC 6.5.1.1)
	0.6% (w/v) Tris-HCI (mix of Tris(hydroxymethyl)aminomethane / hydrochloric acid) (pH7.5), CAS: 77-86-1
	0.6 % (w/v) sodium chloride, CAS: 7791-18-6
	0.04% (w/v) Tris(2-carboxyethyl)phosphine hydrochloride (TCEP) CAS: 51805-45-9
	0.003% (w/v) EDTA (Ethylene diamine tetraacetic acid, tetrasodium salt), CAS: 6381-92-6
	50% (v/v) glycerol, CAS: 56.81.5
	0.1 % (w/v) Triton X-100, CAS: 9036-19-5
	 2) Dilution Buffer (supplied with TDL1, TDL2 and TDL3C) 0.6% (w/v) Tris-HCI (mix of Tris(hydroxymethyl)aminomethane / hydrochloric acid) (pH7.5), CAS:
	77-86-1
	0.6 % (w/v) sodium chloride, CAS: 7791-18-6
	0.04% (w/v) Tris(2-carboxyethyl)phosphine hydrochloride (TCEP) CAS: 51805-45-9
	0.003% (w/v) EDTA (Ethylene diamine tetraacetic acid, tetrasodium salt), CAS: 6381-92-6
	50% (v/v) glycerol, CAS: 56.81.5
_	0.1 % (w/v) Triton X-100, CAS: 9036-19-5
	 3) Assay Buffer (supplied as 10X stock with TDL1, TDL2 and TDL3C) 6.05% (w/v) Tris-HCI (mix of Tris(hydroxymethyl)aminomethane / hydrochloric acid) (pH7.5), CAS:
	77-86-1
	1.68 % (w/v) Magnesium chloride hexahydrate (MgCl _{2.} 6H2O) CAS: 7791-18-6 0.4 % (w/v) TCEP CAS: 51805-45-9
	0.51 % (w/v) ATP, CAS: 987-65-5
Section 3:	Hazards Identification: Ingredients are either not classified as dangerous according to EC Directives, or not considered to be hazardous in the very low quantities/concentrations present.
Section 4:	First Aid Measures:
	In case of contact with skin, wash immediately with soap and water.
	In case of contact with eyes, flush with water and seek medical advice if discomfort persists.

Section 5: <u>Fire Fighting Measures</u> :			
Extinguishing media: water spray, carb	on dioxide, dry chemical powder or foam as required.		
Section 6: <u>Accidental Release Measures</u> : Wear appropriate protective clothing. A container for disposal.	bsorb onto sand or vermiculite and place in closed		
Section 7: <u>Handling and Storage</u> : No special precautions necessary.			
Section 8: <u>Exposure Controls / Personal Protection</u> Wear gloves and appropriate protective	<u>n</u> : clothing to avoid contact with skin and eyes.		
Section 9: <u>Physical and Chemical Properties</u> : Aqueous, colourless liquid.			
Section 10: <u>Stability and Reactivity</u> : Stable. Glycerol incompatible with oxidizing age The possibility of reaction with other sub	ents, halogens, ethylene oxide, nitric acid/sulphuric acid. ostances cannot be excluded.		
Section 11: <u>Toxicological Information</u> : Some constituents may cause skin irrita	ition and eye irritation.		
Section 12: <u>Ecological Information</u> : No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.			
Section 13: <u>Disposal Considerations</u> : Dispose of in accordance with local rules and regulations.			
Section 14: <u>Transport Information</u> : Not subject to transport regulations.			
Section 15: <u>Regulatory Information</u> : Ingredients are either not classified as dangerous according to EC Directives, or not considered to be hazardous in the very low quantities/concentrations present. Caution – products for research use only, substances not fully tested.			
Section 16: <u>Other Information</u> : The above information is believed to be correct but does not purport to be all-inclusive and shall only be used as a guide. Inspiralis Ltd., and its governors, officers, employees and agents shall not be held liable for any claims brought by third parties due to damage resulting from handling or from contact with the above product.			
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