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MATERIAL SAFETY DATA SHEET

Section 1: Identification of Substance / Preparation:

Topoisomerase IV (*E coli*) Enzyme/Protein in buffer solution; buffer solution
Catalogue Numbers: T4001, T4002, T4003, T4004

Section 2: Composition / Information on Ingredients:

Active Ingredient: Topoisomerase IV (*E coli*) Enzyme, CAS: None (ECS. 99.1.3)
Other ingredients in water: (volume of each product package varies from 0.02-1ml)
50% Glycerol, CAS: 56-81-5
0.95% HEPES-KOH (mix of N-[2-Hydroxyethyl]piperazine-N'-[2-ethanesulfonic acid] and potassium hydroxide), CAS 7365-45-9
0.03% Dithiothreitol (DTT), CAS: 3483-12-3
0.03% Ethylene diamine tetraacetic acid, tetrasodium salt (EDTA), CAS: 6381-92-6
3.0% Potassium Glutamate, CAS: 19473-49-5
1.07% Magnesium Acetate, CAS: 16674-78-5
0.0004% tRNA
0.05% adenosine 5'-triphosphate disodium salt, CAS: 987-65-5
0.01% BSA, CAS: 9048-46-8

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: Fire Fighting Measures:

Extinguishing media: water spray, carbon dioxide, dry chemical powder or foam as required.

Section 6: Accidental Release Measures:

Wear appropriate protective clothing. Absorb onto sand or vermiculite and place in closed container for disposal.

Section 7: Handling and Storage:

No special precautions necessary.

Section 8: Exposure Controls / Personal Protection:

Wear gloves and appropriate protective clothing to avoid contact with skin and eyes.

Section 9: Physical and Chemical Properties:

Aqueous, colourless liquid.

Section 10: Stability and Reactivity:

Stable.
Glycerol incompatible with oxidizing agents, halogens, ethylene oxide, nitric acid/sulphuric acid.
The possibility of reaction with other substances cannot be excluded.

Section 11: Toxicological Information:

Some constituents may cause skin irritation and eye irritation.

Section 12: Ecological Information:

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

Section 13: Disposal Considerations:

Dispose of in accordance with local rules and regulations.

Section 14: Transport Information:

Not subject to transport regulations.

Section 15: Regulatory Information:

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 in-vitro research use only, substances not fully tested.

Section 16: Other Information:

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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