



Material Safety Data Sheet

Recombinant Proteins Expressed in Bacteria

1. Product and Company Information

Product Category	Recombinant Proteins Expressed in Bacteria-Components of the E2 ^{scan} Kit.
Catalog Numbers	E2 ^{scan} Kit: 67-0005-001 E2 ^{scan} plate: 62-0105-034 E2 conjugating enzymes in the E2 ^{scan} plate 62-0002, 62-0004, 62-0007, 62-0010, 62-0012, 62-0014, 62-0017, 62-0019, 62-0022, 62-0025, 62-0028, 62-0030, 62-0032, 62-0034, 62-0038, 62-0039, 62-0042, 62-0044, 62-0054, 62-0056, 62-0059, 62-0066 62-0067, 62-0068, 62-0069, 62-0070, 62-0081, 62-0085, 62-0086, 62-0096, 62-0098, 62-0100, 63-0003.
Synonyms	NA
Product Use	Research use only
Manufacturer/Supplier	Ubiquigent Ltd, The Sir James Black Centre, College of Life Sciences University of Dundee, Dow Street Dundee, Scotland DD1 5EH
In Case of Emergency Call	+1.760.707.7582
Date Effective	May 12, 2010
Prepared by	Quality Control

2. Composition/Information on Ingredients

Component	CAS No.	%w/w
Recombinant Proteins	NA	

3. Hazards Identification

Emergency Overview	
Routes of Exposure	
Potential Health Effects	
• Eye	NA
• Skin	NA
• Inhalation	NA
• Ingestion	NA
Chronic Effects/Carcinogenicity	NA
OSHA Regulatory Status	NA

4. First Aid Measures

Eyes	Check for and remove contact lenses. In case of contact, immediately flush through with water. Call
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	a physician.
Skin	In case of contact, immediately flush skin with copious amounts of water. Remove contaminated clothing and shoes and wash before use. Contact physician.
Ingestion	If swallowed, wash mouth out with water, provided person is conscious.
Inhalation	If Inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician.
Puncture Wounds	Wash thoroughly with soap and water. Allow to bleed freely. Call a physician.
Note to Physician	Treat symptoms as necessary.

5. Fire Fighting Measures

Flash Point/Method	NA
Explosive Limits	
<ul style="list-style-type: none"> Upper Lower 	NA
Auto ignition Temperature	NA
Hazardous Combustion Products	NA
Conditions of Flammability	NA
Extinguishing Media	Dry chemical
Fire Fighting Procedures	Wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Explosion Data	
<ul style="list-style-type: none"> Sensitivity to Mechanical Impact Sensitivity to Static Discharge 	NA

6. Accidental Release Measures

Leak and Spill Procedure	Soak up with inert absorbent material.
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7. Handling and Storage

Handling	No special handling advice required.
Storage	Keep in properly labeled containers.

8. Exposure Controls/Personal Protection

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Personal Protective Equipment	
<ul style="list-style-type: none"> Respiratory Protection 	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.
<ul style="list-style-type: none"> Eye Protection 	Chemical safety goggles.
<ul style="list-style-type: none"> Skin Protection 	Protective gloves and protective clothing.



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General Hygiene Considerations	Wash hands thoroughly after handling; use good hygiene and safety practice.
Exposure Limits	
• ACGIH TLV-TWA	NA
• OSHA PEL-TWS	NA

9. Physical/Chemical Properties

Appearance	Physical state: frozen liquid
Odor	NA
Physical State	NA
pH	NA
Boiling Point	NA
Melting Point	NA
Freezing Point	NA
Vapor Pressure	NA
Vapor Density	NA
Specific Gravity	NA
Evaporation Rate	NA
Solubility in Water	NA
Odor Threshold	NA
Coefficient of Water/Oil Distribution	NA

10. Stability/Reactivity

Chemical Stability	This product is stable.
Conditions to Avoid	NA
Incompatibility (Material to Avoid)	NA
Hazardous Decomposition/By-Products	NA
Hazardous Polymerization	Does not occur.

11. Toxicological Information

Effects of Short-Term Exposure	NA
Effects of Long-Term Exposure	NA
Irritancy of Product	NA
Sensitization to Product	NA
Carcinogenicity	NA
Reproductive Toxicity	NA
Teratogenicity and Embryotoxicity	NA
Mutagenicity	NA
Name of Toxicologically Synergistic Products	NA
LD50 (specify species and route)	NA
LD50 (specify species)	NA

12. Ecological Information

Ecotoxicity	NA
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.

13. Disposal Considerations



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Waste Disposal Method	Waste must be disposed of in accordance with federal, state, and local environmental control regulations.
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14. Transport Information

Proper Shipping Name	NONE – not classified as dangerous by transport regulation.
Hazard Class	This product is considered non-hazardous for transport.
ID Number	
Packing Group	
Label Statement	

15. Regulatory Information

International Inventories	
U.S. Federal Regulations	
<ul style="list-style-type: none">SARA 313	Not SARA listed.
<ul style="list-style-type: none">Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61)	Does not contain HAPs.
U.S. State Regulations	
<ul style="list-style-type: none">California Proposition 65	Does not contain chemicals listed under Prop. 65.
WHMIS Hazard Class	Not controlled under WHMIS (Canada)

16. Other Information

Preparation Information	
Revisions	
Original Issue Date	May 2010
Notice	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Ubiquigent shall not be held liable for any damage resulting from handling or from contact with the product. See Ubiquigent website for terms and conditions of sale.
Disclaimer	For research use only. Not for use in diagnostic or therapeutic applications.

END OF SAFETY DATA SHEET