



Material Safety Data Sheet

Proteins from Bovine Serum Purification

1. Product and Company Information

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|---------------------------|--|
| Product Category | Proteins from Bovine Serum Purification-Components of the E2 ^{scan} kit. |
| Catalog Numbers | E2 ^{scan} kit: 67-0005-001 Bovine Ubiquitin kit component 60-0008 |
| Synonyms | NA |
| Product Use | Research use only |
| Manufacturer/Supplier | Ubiquigent Ltd, 10575 Roselle Dr. San Diego, CA 92121 |
| 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 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. |



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| Note to Physician | Treat symptoms as necessary. |
|-------------------|------------------------------|

5. Fire Fighting Measures

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| Flash Point/Method | NA |
| Explosive Limits | |
| <ul style="list-style-type: none">Upper | NA |
| <ul style="list-style-type: none">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 | NA |
| <ul style="list-style-type: none">Sensitivity to Static Discharge | NA |

6. Accidental Release Measures

| | |
|--------------------------|--|
| Leak and Spill Procedure | Soak up with inert absorbent material. |
|--------------------------|--|

7. Handling and Storage

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

8. Exposure Controls/Personal Protection

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|--|---|
| 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. |
| General Hygiene Considerations | Wash hands thoroughly after handling; use good hygiene and safety practice. |
| Exposure Limits | |
| <ul style="list-style-type: none">ACGIH TLV-TWA | NA |
| <ul style="list-style-type: none">OSHA PEL-TWS | NA |

9. Physical/Chemical Properties

| | |
|----------------|------------------------------|
| Appearance | Physical state: solid powder |
| Odor | NA |
| Physical State | NA |
| pH | NA |
| Boiling Point | NA |



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| 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

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|----------------------|---|
| 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 | |



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15. Regulatory Information

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|---|---|
| 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

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|-------------------------|---|
| 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