

**Invent Biotechnologies, Inc.**

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**Material Safety Data Sheet**

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**SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

| <b>Product Name</b>                                                                      | <b>Product Cat#</b> |
|------------------------------------------------------------------------------------------|---------------------|
| Minute™ Bacterial Total Protein Extraction Kit                                           | SB-004              |
| Minute™ Detergent-Free Protein Extraction Kit for Microbes with Thick Cell Walls         | YD-016              |
| Minute™ PCR Template Prep Kit                                                            | PC-020              |
| Minute™ Protein Extraction kit for Hair and Nails                                        | HD-021              |
| Minute™ Detergent-Free Protein Extraction Kit                                            | SN-006              |
| Minute™ Water-soluble and Water-Insoluble Protein Fractionation Kit<br>For Cells/Tissues | WS-056              |
| Minute™ Plasma membrane isolation kit for mammalian red blood cells                      | RP-057              |

**SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous/  
Non-hazardous  
Components Phosphate-buffered saline (10%)

**SECTION 3 — HAZARDS IDENTIFICATION**

Physical/chemical  
Hazards Harmful  
Human health hazards Harmful if swallowed, irritating to eye and skin  
NFPA rating (1-4) Health rating: 2, Reactivity rating: 1, contact rating: 3

**SECTION 4 — FIRST AID MEASURE**

Inhalation If inhaled, remove to fresh air. If breathing is difficult, give oxygen and seek medical attention.

Ingestion Do not induce vomiting unless directed to do so by medical personal. If large quantities of this material are swallowed, call a physician immediately.

Skin contact In case of contact, immediately flush the skin with plenty of water. Remove contaminated clothes and shoes.

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 min. get medical attention.

Aggravating condition Prolonged exposure is not known for aggravate medical condition.

**SECTION 5 — FIRE FIGHTING MEASURES**

Flammability May be combustible at high temperature.

Extinguishing media Suitable Use dry chemical for small fire, for large fire, use water spray, fog or foam. Do not use water jet

Hazardous  
Decomposition These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides etc.

Fire-fighting procedure Fire fighter should wear positive pressure self-contained breathing

|                             |                                                            |
|-----------------------------|------------------------------------------------------------|
|                             | Apparatus and full turnout gear.                           |
| Protecting of fire-fighters | Be sure to use approved/certified respirator or equipment. |

## **SECTION 6 — ACCIDENTAL RELEASE MEASURE**

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|                      |                                                                                          |
|----------------------|------------------------------------------------------------------------------------------|
| Personal Precautions | Splash goggles, full suit, boots and gloves. Consult a specialist.                       |
| Spill and leak       | Use appropriate tools to put the spilled solid in a convenient waste disposal container. |

## **SECTION 7 — HANDLING AND STORAGE**

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|          |                                                                                |
|----------|--------------------------------------------------------------------------------|
| Handling | Keep away from heat and source of ignition. Empty containers pose a fire risk. |
| Storage  | Keep container tightly closed and store at room temperature.                   |

## **SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION**

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|                               |                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Engineering measures          | Use process enclosure, local exhaust ventilation, or other Engineering controls to keep airborne level recommended limits. |
| Hygiene measures              | Wash hands after handling the materials.                                                                                   |
| Personal protective equipment |                                                                                                                            |
| Skin and body                 | Lab coat                                                                                                                   |
| Eyes                          | Safety glasses                                                                                                             |

## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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|                      |               |
|----------------------|---------------|
| Physical state       | liquid        |
| Color                | Not available |
| Molecular Weight     | Not available |
| Solubility           | Not available |
| Flash point          | Not available |
| Explosive properties | Not available |

## **SECTION 10 — STABILITY AND REACTIVITY**

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|                       |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
| Stability             | The product is stable                                                         |
| Conditions to avoid   | Not available                                                                 |
| Products of hazardous |                                                                               |
| Decomposition         | These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides etc. |

## **SECTION 11 — TOXICOLOGICAL INFORMATION**

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|                       |                                                                              |
|-----------------------|------------------------------------------------------------------------------|
| RTECS #               | N/A                                                                          |
| Local effects         |                                                                              |
| Skin irritation       | Not available                                                                |
| Acute toxicity        | LD50 and LC50: Not available                                                 |
| Chronic toxicity      | Repeated or prolonged exposure is not known for aggravate medical condition. |
| Other Toxic Effects   |                                                                              |
| on humans             | Not available                                                                |
| Carcinogenic effects  | Not available                                                                |
| Mutagenic effects     | Not available                                                                |
| Reproduction toxicity | Not available                                                                |

|                     |               |
|---------------------|---------------|
| Teratogenic effects | Not available |
|---------------------|---------------|

## **SECTION 12 — ECOLOGICAL INFORMATION**

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|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| Ecotoxicity                           | Not available                                                  |
| Toxicity of product of biodegradation | The product itself and its degradation products are not toxic. |

## **SECTION 13 — DISPOSAL CONSIDERATIONS**

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|                     |                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------|
| Methods of disposal | Waste must be disposed of in accordance with federal, state, and local control regulations. |
|---------------------|---------------------------------------------------------------------------------------------|

## **SECTION 14 — TRANSPORT INFORMATION**

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|----------------------|----------------------------------------------------------------------|
| IATA                 |                                                                      |
| Proper shipping name | Not classified as dangerous in the meaning of transport regulations. |
| Hazard class         | Not available                                                        |
| Subsidiary class     | Not available                                                        |
| Packing group        | Not available                                                        |
| Un-no                | Not available                                                        |

## **SECTION 15 — REGULATORY INFORMATION**

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|                           |                                                                                  |
|---------------------------|----------------------------------------------------------------------------------|
| EU regulation             |                                                                                  |
| Risk phrases              | This product is not classified according to the EU regulation.                   |
| U.S. Federal Regulations  | This product is not regulated by SARA 313<br>This product does not contain HAPs. |
| HCS Classification        | Not-controlled under the HCS (United States)                                     |
| State regulations         |                                                                                  |
| California Proposition 65 | This product does not contain chemicals listed under proposition 65              |
| WHMIS (Canada)            | Non-controlled                                                                   |

## **SECTION 16 — OTHER INFORMATION**

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These products are sold for research use only. They are not intended for human or animal therapeutic or clinical diagnostic use. They are not intended for food, drug, household or cosmetic use. A technically competent individual must supervise the use of these products. The above product information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information is to be used as a guide and shall not be taken as being all inclusive. All materials and mixtures may be present unknown hazards and should be used with caution. Since Invent Biotechnologies Inc. cannot control the actual methods or conditions of use, the company shall not held responsible for any damages or losses resulting from contact with the product described herein. The information in this msds does not constitute a warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.

**End of Safety Data Sheet**

