

# Material Safety Data Sheet

## Product Identification

**Product Name:** ImmuKnow™ - the Cylex® Immune Cell Function Assay  
Component E - Luminescence Reagent

**Catalog Number:** 4004

## Composition / Information on Components:

- **COMPONENT E2:** Dithiothreitol (DTT) in solution
  - **Molecular Formula:** C<sub>4</sub>H<sub>10</sub>O<sub>2</sub>S<sub>2</sub>
  - **Molecular Weight:** 154.24
  - **CAS Number/Name:** 3483-12-3 / 2,3-Butanediol, 1,4-dimercapto-, (R\*,R\*)-

## Hazards Identification

**Emergency Overview:** To our knowledge, the hazards of this material have not been thoroughly investigated. We recommend handling all chemicals with caution.

## Potential Health Effects:

- **Inhalation:** Not determined
- **Ingestion:** Not determined
- **Skin:** Not determined
- **Eyes:** Not determined
- **Chronic Exposures:** Not determined
- **Target Organs:** Not determined

## First Aid Measures for solid form:

Potentially harmful. Avoid prolonged or repeated exposure. Wash thoroughly after handling. If eye or skin contact occurs, wash affected area with water for 15 minutes and seek medical advice. If inhaled, move individual to fresh air and seek medical advice. If swallowed, seek medical advice.

## Fire Fighting Measures for solid form:

Use dry chemical powder or appropriate foam extinguisher.

## Accidental Release Measures for solid form:

Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

**Exposure Controls / Personal Protection:**

Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

**ACGIH/OSHA Permissible Exposure Limit Data:** Not determined

**Physical and Chemical Properties:**

- **Form:** In solution
- **Odor:** Not determined
- **pH:** Not determined

**Stability and Reactivity for solid form:**

- **Thermal Decomposition:** No decomposition if used according to specifications.
- **Dangerous Reactions:** No dangerous reactions identified.
- **Dangerous Products of Decomposition:** No dangerous decomposition products identified.

**Toxicological Information for solid form:**

- **RTECS Number:** EK1610000
- **Toxicity:** LD<sub>50</sub>: 154 mg/kg, intraperitoneal, mouse; 108 mg/kg, intramuscular, mouse.
- **Health Hazards:** See Toxicity information above.
- **Potential Hazards:** See Toxicity information above.
- **Carcinogenicity:** Not listed by NTP, IARC or OSHA.

**Ecological Information:**

Information not available.

**Disposal Considerations:**

Consult local, state or national regulations for proper disposal.

**Transport Information:**

- **Hazard Class:** Not determined
- **Identification Number:** Not determined
- **Packing Group:** Not classified

**Proper Shipping Name (Technical Name):** Not classified

**Regulations:**

- **US Toxic Substances Control Act (TSCA):** Not listed
- **US Other:** Not applicable
- **EEC EINICS Number:** Not identified
- **EEC Risk Statements:** Not determined
- **Other Country Regulations:** None identified

**Other Information:**

This material is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is correct to the best of our knowledge. Users should make independent decisions regarding completeness of the information based on all sources available. Cylex Inc. shall not be held liable for any damage resulting from handling or contact with the above product.