Material Safety Data Sheet
Revision Number: 1.5
Revision Date: 03-Aug-2004

Product and Company Identification

Product Name: Alexa Fluor® 488 Protein Labeling Kit *3 labelings*
Catalog Number: A10235
Unit Size: 1 kit
Manufacturer/Supplier: Molecular Probes, Inc.
29851 Willow Creek Road, Eugene, OR 97402-9132, USA
For US and Canada, Toll-Free Phone: 1-800-438-2209 · Fax: 1-800-438-0228
Phone: (541)465-8300 · Fax: (541)335-0305 · Web: http://www.probes.com
Technical Assistance: (541)335-0353 · E-mail: tech@probes.com

Composition / Information on Components

- **COMPONENT A**: Alexa Fluor® 488 carboxylic acid, tetrafluorophenyl (TFP) ester
  - Unit Size: each
  - Molecular Formula: \( \text{C}_{39}\text{H}_{44}\text{F}_{4}\text{N}_{4}\text{O}_{11}\text{S}_{2} \)
  - Molecular Weight: 884.91
  - CAS Number/Name: N/A

- **Other Components (See attached)**
  - COMPONENT B: sodium bicarbonate
  - COMPONENT C: purification resin
  - COMPONENT D: 10X elution buffer

Hazards Identification

**Emergency Overview:** Caution - substance not yet fully tested. 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**
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**

Use dry chemical powder or appropriate foam extinguisher.

**Accidental Release Measures**

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.

**Handling and Storage**

Desiccation required. Store at <= -20°C. Protect material from long-term exposure to light; may be exposed to light for short periods of time.

**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:** Solid
- **Odor:** Not determined
- **Solubility in Water:** Moderate
- **Specific Gravity:** Not determined
- **pH:** Not determined
- **Boiling Point:** Not determined
- **Melting Point:** Not determined
- **Flash Point:** Not determined
- **Vapor Pressure:** Not determined

**Stability and Reactivity**

**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**

- **RTECS Number:** None known
- **Toxicity:** To our knowledge, the health hazards have not been thoroughly investigated.
- **Health Hazards:** We are not aware of any reported health hazards for this product. We
recommend treating all chemicals with caution.

Potential Hazards: The complete properties have not been investigated; however, similar compounds are known to be chemically reactive with proteins and other biochemicals and should be treated as potentially hazardous.

Carcinogenicity: Not listed by NTP, IARC or OSHA.

Ecological Information

Do not allow product to reach ground water, water course, or sewage system.

Disposal Considerations

Consult local, state or national regulations for proper disposal.

Transport Information

<table>
<thead>
<tr>
<th>Hazard Class:</th>
<th>Not determined</th>
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<tbody>
<tr>
<td>Identification Number:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>Not classified</td>
</tr>
<tr>
<td>Proper Shipping Name (Technical Name):</td>
<td></td>
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</tbody>
</table>

Regulations

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

Other Information

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It 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. Molecular Probes shall not be held liable for any damage resulting from handling or contact with the above product.