Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name: Genomic DNA from Tissue Blocks
Catalog Number: CDxxxxxx
Manufacturer: OriGene Technologies, Inc. 9620 Medical Center Drive, Suite 200 Rockville, MD 20850, USA
Contact: 888-267-4436 (Tel) or 301-340-8606 (Fax), safety@origene.com, www.origene.com
Validation Date: 11/9/11
MSDS# OTITC1111

Component/Item (and Parts number if listed)
Complementary DNA (cDNA) clones in e-coli suspended in glycerol and supplied in individual vials

Section 2. Composition and Information on Hazardous (OSHA) Ingredients

The following list shows components of this product classified as hazardous based upon physical properties and health effects

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCEROL</td>
<td>56-81-5</td>
<td>7-13</td>
</tr>
</tbody>
</table>

All other components of the products are considered non-hazardous. As yet, the chemical, physical, and toxicological properties of these products have not been thoroughly investigated. These products are provided as bacterial plasmid DNA suspended in glycerol and this MSDS is written to apply to that suspension reagent.

Section 3. Hazards Identification

Review approved and the most current institutional guideline, protocol, SOP(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this BCI product.

Primary Routes of Entry:
Skin Absorption (Yes); Dermal/skin contact (Yes); Eye contact (Yes); Inhalation (No); Ingestion (Yes);
Chronic Exposure (No).

Medical Conditions Aggravated by Exposure: Not available.

Potential Acute Health Effects:

- EYE - Can cause minor irritation, tearing and reddening
- SKIN – Can cause minor skin irritation, defatting and dermatitis
- INHALATION – Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
- INGESTION – Mildly irritating to mouth, throat and stomach. Can cause abdominal discomfort

Carcinogenic Effects: Not listed by NTP, IARC or OSHA.
Mutagenic Effects: Not available.
Teratogenic Effects: Not available.

Section 4. First Aid Measures

Emergency First Aid Procedures:

- EYE - Use an eye-wash to remove a chemical from your eye regardless of the level of hazard. Flush the effected eye for at least 20 minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.
- SKIN – Wash affected area with soap and water for at least 15 minutes. Seek medical advice.
- INHALATION – Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
- INGESTION – Minor risk of harm if swallowed. Do not induce vomiting. Seek medical advice.
Section 5. Fire Fighting Measures

Special Fire Fighting: N/A

Section 6. Accidental Release Measures

If released or spilled Absorb on neutral material. Wash area thoroughly.

Section 7. Handling and Storage

See User’s Manual for storage information.

Section 8. Exposure Controls and Personal Protection

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL (ppm)</th>
<th>AGCIH TWA (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCEROL</td>
<td>15</td>
<td>10 mg/m^3</td>
</tr>
</tbody>
</table>

Effects of Overexposure: N/A
Respiratory Protection: None needed
Ventilation: General ventilation
Protective Glove: General lab safe gloves
Eye Protection: Use general eye protection-goggles.
Handling and Storage: Wear appropriate protective clothing and gloves. Store in cold.

Section 9. Physical and Chemical Properties

Appearance: Solution.
Boiling Point: N/A
Specific Gravity: N/A
Vapor Density & Pressure: N/A
Solubility in H₂O: Soluble

Section 10. Stability and Reactivity

Stability and Reactivity: The product is stable
Incompatibility: N/A
Hazardous Decomposition Products: N/A

Section 11. Toxicological Information

Acute Toxicity
Dermal/Skin – N/A
Inhalation/Respiratory – N/A
Oral/Ingestion – Glycerol 12600 mg/kg
Target organs – Kidneys
Carcinogenicity – NTP Not Tested; IRAC Not Listed; OSHA Not Regulated

Section 12. Ecological Information

The product itself and its products of degradation are not toxic.

Section 13. Disposal Considerations

Please consult local, state and federal regulation on additional guidance on disposal.

Section 14. Transport Information
Does not meet definition of a “hazardous material” for transportation purposes (U.S. DOT)

Section 15. Regulatory Information

This product is solely for research and development purposes only.

Section 16. Other Information


Notice to Reader

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N/A - Not applicable or no information available.