1. Information on the Substance/Preparation and Company

1.1 Catalog # 40-400200. v2

Product Name: Thyretain™ Cell Attachment Solution

1.2 Company Diagnostic Hybrids, Inc.
1055 East State Street, Suite 100
Athens, OH  45701, USA
(740) 589-3300 or (866) 344-3477

1.3 In emergencies Call your local emergency center

2. Components and Hazardous Ingredients

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>Classification Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Proprietary ingredients]</td>
<td>[Not applicable]</td>
</tr>
</tbody>
</table>

Classification key: Toxic (T); Very toxic (T+); Harmful (Xn); Irritant (Xi); Dangerous for the environment (N); Oxidizing agent (O); Explosive (E); Flammable (F)

3. Hazards Identification

- Contains non-hazardous quantities of proprietary ingredients [OSHA Regulations (Standards-29CFR) Hazard Communication-1910.1200(i)(1)].

4. First Aid Measures

Eye contact:
- Flush eyes immediately with water for 15 minutes, occasionally lifting the upper and lower eyelids
- Consult a doctor/medical service

Skin contact:
- Rinse with plenty of water
- Remove clothing before washing
- Consult a doctor/medical service

After inhalation:
- Remove the victim into fresh air
- Consult a doctor/medical service

After ingestion:
- Consult a doctor/medical service

5. Fire Fighting Measures

Suitable extinguishing media:
- All non combustible extinguishing media allowed

Unsuitable extinguishing media:
- No data available

Special exposure hazards:
- Take account of contaminated fire fighting water
- Use fire fighting water moderately and contain it

Instructions:
- No data available

Special protective equipment for firefighters:
- No data available

6. Accidental Release Measures

Personal protection:
- See 8.2, below

Environmental precautions:
- Discharge according to local regulations
- Take up liquid spill into absorbent material
- Discharge absorbed material according to local regulations
- Wash clothing and equipment after handling

Clean-up:
- No data available

7. Handling and Storage

Handling:
- **If solution is spilled**: take up with an absorbent material; if contact is possible, wear gloves as protection.
- Discharge according to local regulations
8. Exposure Controls/Personal Protection

8.1 Exposure Limits

<table>
<thead>
<tr>
<th>Chemical/Component</th>
<th>TLV/NIOSH REL</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary Ingredients</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

*Note: Information in above table from NIOSH Pocket Guide to Chemical Hazards, 2005.*

8.2 Control of Exposure

- **Eye protection:** Safety glasses or Face shield
- **Hand protection:**
  - Gloves should be waterproof
  - Suitable materials: Butyl rubber, natural rubber, neoprene, nitrile rubber, polyethylene, PVC
  - Hands should be washed after working with this product.
- **Skin protection:** Protective clothing
- **Respiratory protection:** Area ventilation is generally adequate; avoid generation of dusts, mists or other airborne forms when working with the product.
  - Insufficient ventilation: wear respiratory protection

9. Physical and Chemical Properties

- Liquid at room temperature.

*Note: Boiling and Freezing Points for all aqueous components are near those of pure water.*

10. Stability and Reactivity

- **Stability:** Hazardous polymerization will not occur. Stable if stored in specified conditions (see label).
- **Reactivity/Hazardous decomposition products:** No hazardous decomposition products are formed in high quantities.
- **Conditions/Materials to avoid:** Strong oxidizing agents.

11. Toxicological Information

**Acute toxicity:**

<table>
<thead>
<tr>
<th>Proprietary Ingredients</th>
<th>LD₅₀: none noted</th>
</tr>
</thead>
</table>

*Note: Toxicity levels listed in the table above are for the ingredients when in their pure state.*

**Chronic toxicity:**

<table>
<thead>
<tr>
<th>Proprietary Ingredients</th>
<th>Target Organ(s): none noted</th>
</tr>
</thead>
</table>

**Routes of exposure**

- Ingestion, inhalation, eyes and skin

**Acute effects/symptoms**

- May cause skin, eye, and mucous membranes and upper respiratory tract irritation.
- May be harmful if swallowed.

**Chronic effects**

- The chemical, physical, and toxicological properties have not been thoroughly investigated.
12. Ecological Information

Aquatic toxicity: No data available

Other Information:
- Effect on the ozone layer: No data available
- Greenhouse effect: No data available
- Effect on waste water purification: No data available

13. Waste Disposal Considerations

Disposal methods:
- Dispose of material according to local regulations.

14. Transport Information

USA: No restrictions.
Canada: No restrictions
EU: No restrictions

15. Regulatory Information

Classification according to directives 67/548/EEC and 1999/45/EC

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xi</td>
<td>irritant</td>
</tr>
<tr>
<td>R42/43</td>
<td>May cause sensitization by inhalation and skin contact</td>
</tr>
<tr>
<td>S24/25</td>
<td>Avoid contact with skin and eyes</td>
</tr>
<tr>
<td>S26</td>
<td>In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</td>
</tr>
<tr>
<td>S36/37/39</td>
<td>Wear suitable protective clothing, gloves and eye/face protection.</td>
</tr>
</tbody>
</table>

16. Other Information

- Based on: US 29 CFR 1910:1200(g); Canadian Hazardous Product Act, Part II; Directive 911155/EEC et seq.
- This product is designed for use by professionals.
- The above information is believed to be accurate and represents the information available to date, but Diagnostic Hybrids does not purport it to be all-inclusive; this should be used only as a guide.
- Refer to the Product Insert for this Product for additional details on the proper storage, handling, use, and disposal of the reagents included in this Product.
- Contact Diagnostic Hybrids, Inc. if additional information is required.

[End of Document]