SAFETY DATA SHEET
Date Revised: October 8, 2014

1. PRODUCT AND COMPANY IDENTIFICATION
   - **Product Name:** APC and R-PE secondary antibody conjugates
   - **Catalog Number:** See product information sheet
   - **Unit Size:** 100 μL/200 μL/500 μL
   - **Manufacturer/Supplier:** Biotium, Inc.
     46117 Landing Parkway, Fremont, CA 94538, USA
     Phone: 1-510-265-1027, Fax: 1-510-265-1352
     Web: [http://www.biotium.com](http://www.biotium.com)

2. HAZARDS IDENTIFICATION
   - **Classification according to Regulation (EC) No 1272/2008[CLP]**
     None
   - **Classification according to Directive 1999/45/EC**
     None

   - **Labelling according to Regulation (EC) No 1272/2008[CLP]**
     - **Hazard pictogram** None
     - **Signal word** None
     - **Hazard statements** None
     - **Precautionary statements** None

   - **HMIS Classification**
     - **Health hazard:** 0
     - **Flammability:** 0
     - **Physical hazards:** 0

   - **NFPA Rating**
     - **Health hazard:** 0
     - **Fire:** 0
     - **Reactivity Hazard:** 0

3. COMPOSITION/INFORMATION ON INGREDIENTS
   - No ingredients present at concentrations classified as hazardous to health or the environment.

4. FIRST- AID MEASURES
   - **General advice**
     Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
   - **If inhaled**
     If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
   - **In case of skin contact**
     Wash off with soap and plenty of water. Consult a physician.
   - **In case of eye contact**
     Flush eyes with water as a precaution.
   - **If swallowed**
     Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
5. **FIREFIGHTING MEASURES**

   **Suitable extinguishing media**
   carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

   **Special protective equipment for firefighters**
   Wear self contained breathing apparatus for firefighting if necessary.

6. **ACCIDENTAL RELEASE MEASURES**

   **Personal precautions**
   Avoid breathing vapors, mist or gas. Remove all sources of ignition.

   **Environmental precautions**
   Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

   **Methods and materials for containment and cleaning up**
   Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

7. **HANDLING AND STORAGE**

   **Precautions for safe handling**
   Avoid inhalation of vapor or mist. Avoid direct contact with substance.

   **Conditions for safe storage**
   Keep container tightly closed in a dry and well-ventilated place.
   Store at 4°C.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

   **Components with workplace control parameters**
   Substance  None
   CAS no.

   **Personal protective equipment**
   **Hand protection**
   Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

   **Respiratory protection**
   Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

   **Eye protection**
   Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

   **Hygiene measures**
   Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Chemical Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>R-PE, APC secondary antibody conjugate</td>
</tr>
<tr>
<td>Appearance</td>
<td>Solution</td>
</tr>
<tr>
<td>Odor</td>
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</tr>
<tr>
<td>Odor threshold</td>
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<tr>
<td>pH</td>
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<tr>
<td>Flash point</td>
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<tr>
<td>Evaporate rate</td>
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<tr>
<td>Flammability</td>
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<tr>
<td>Explosive limits</td>
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<tr>
<td>Vapor pressure</td>
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<tr>
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<tr>
<td>Relative density</td>
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<td>Solubility</td>
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<tr>
<td>Auto-ignition temperature</td>
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<tr>
<td>Decomposition temperature</td>
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<td>Viscosity</td>
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<tr>
<td>Oxidizing properties</td>
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</table>

10. STABILITY AND REACTIVITY

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
No data available

**Conditions to avoid**
Heat, flames and sparks.

**Materials to avoid**
No data available

**Hazardous decomposition products**
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

**Acute toxicity**
- Oral LD50 None
- Inhalation LC50 None
- Dermal LD50 None

**Other information on acute toxicity**
- no data available

**Skin corrosion/irritation**
- no data available

**Serious eye damage/eye irritation**
- no data available

**Respiratory or skin sensitization**
- no data available

**Germ cell mutagenicity**
- no data available

**Carcinogenicity**
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity  no data available
Specific target organ toxicity - single exposure (Globally Harmonized System)  no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available
Aspiration hazard  no data available

Potential health effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion May be harmful if swallowed.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.

Additional Information
RTECS: None

12. ECOLOGICAL INFORMATION

Toxicity  no information available
Persistence and degradability  no information available
Biodegradation  no information available
Mobility in soil  no information available
Results of PBT and vPvB assessment  no information available
Other adverse effects  no information available
Additional information  no information available

13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

14. TRANSPORT INFORMATION

IATA, IMDG, DOT (US)  not dangerous good during transportation
UN number  none
UN proper shipping name  none
Transport hazard class  none
Packing group  none
Environmental hazards  none
Special precaution for user  none

15. REGULATION INFORMATION

US Federal Regulations
US Toxic Substances Control Act (TSCA): Not listed
SARA 302: No chemicals were found.
SARA 313: No chemicals were found.
SARA 311/312 Hazards: No chemicals were found.

16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008
Refer to section 2 and section 3

Prepared by:  Regulatory Department
Biotium Inc.

Version no.  1
Reason for revision

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. 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. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.