SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 **Product Identifier**
   - **Product Name**: DNAscope™ HD Duplex AMP 6
   - **Product No**: 324716

1.2 **Relevant identified uses of the substance or mixture and uses advised against**
   - **Identified uses**: For Research Use Only. Not for diagnostic use.

1.3 **Details of the supplier of the safety data sheet**
   - **Company**: Advanced Cell Diagnostics
   - **Telephone**: 1-800-343-7475
   - **Fax**: 1-612-656-4400
   - **Internet**: www.acdbio.com
   - **Tel**: (510) 576-8800
   - **Email address**: info@acdbio.com

   - **Canada**: 21 Canmotor Ave.
     - **Telephone**: 1-855-668-8722
     - **Fax**: 902-827-6402
     - **Email address**: Canada.inquiries@bio-techne.com

   - **United Kingdom**: 19 Barton Lane
     - **Telephone**: 44 (0)1235 529449
     - **Fax**: 44 (0)1235 533420
     - **Email address**: info.emea@bio-techne.com

   - **China**: 1193 Changning Road
     - **Telephone**: 86-400-821-3475
     - **Fax**: 76 (021)52371001
     - **Email address**: techsupport.cn@bio-techne.com

1.1 **Emergency Telephone Number**
   - **Emergency Tel**: For chemical emergency, spill, leak, fire, exposure, or accident call CHEMTREC day or night: Within U.S. 1-800-262-8200 Worldwide 1-703-741-5500
   - **Bio-Techne Tel**: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475

SECTION 2: HAZARDS IDENTIFICATION

2.1 **Classification of the substance or mixture**
   - **Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]**
     - **Skin Irritation – Category 2**
     - **Eye Damage – Category 1**

2.2 **Label Elements**
   - **Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP]**
DNAscope™ HD Duplex AMP 6

Pictogram(s):

Signal Word: Danger
Statement(s):

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May causes respiratory irritation.

Precautionary Statements

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents/container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

<table>
<thead>
<tr>
<th>Hydrogen Peroxide</th>
<th>≤ 5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No: 7722-84-1</td>
<td>EC No.: 231-765-0</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID AND MEASURES

4.1 Description of first aid measures

General Advice
Consult a doctor and show this safety data sheet.

If Inhaled
Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

In Case of Skin Contact
Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

In Case of Eye Contact
Flush with copious amounts of water for at least 15 minutes. Remove contact lenses if easy to do so. Consult a doctor.
If Swallowed
Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed.
**Inhalation**
Vapors may be irritating to the eyes and the respiratory tract.

**Skin**
May cause skin irritation.

**Eyes**
Will cause eye discomfort and redness.

**Ingestion**
Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

4.3 Indication of any immediate medical attention and special treatment needed.
Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

---

**SECTION 5: FIRE FIGHTING MEASURES**

5.1 Extinguishing Media
**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use large quantities of water applied as a mist or spray. Solid streams of water may be ineffective. Cool affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture.
Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

5.3 Precautions for fire-fighters.
Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment, and emergency procedures
Do not act without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust, or gas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.2 Environmental Precautions
Do not discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up
Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4 Reference to other sections
For required PPE see section 8. For disposal see section 13.

---

**SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling
Avoid inhalation, contact with eyes, skin and clothing. Use in a well-ventilated area. Do not eat, drink, or smoke in laboratory areas. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.
DNAscope™ HD Duplex AMP 6

7.2 **Conditions for safe storage, including any incompatibilities.**
Store in cool, well-ventilated area. Store locked up. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage. Keep away from heat, sparks, flame, and other sources of ignition.

7.3 **Specific end user(s)**
Not applicable.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 **Control Parameters**

ACGIH TVL TWA – 1 ppm

**Appropriate Engineering Controls**
Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station. Prevent dispersion of dust. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling product.

**Personal Protective Equipment**
Eye / Face Protection
Use appropriate safety glasses.

Skin Protection
Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

Body Protection
Wear appropriate protective clothing.

Respiratory Protection
If risk assessment indicates necessary, use a suitable respirator.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 **Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Little to none</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting / Freezing Point</td>
<td>No data available.</td>
</tr>
<tr>
<td>Boiling Point / Range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>No data available.</td>
</tr>
<tr>
<td>Upper/Lower Flammability or</td>
<td>No data available.</td>
</tr>
<tr>
<td>Explosive Limits</td>
<td>No data available.</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

9.2 **Other information**
Not Available
### SECTION 10: STABILITY AND REACTIVITY

10.1 **Reactivity**
Stable under normal conditions.

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

10.3 **Possibility of hazardous reactions**
No data available.

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

10.5 **Incompatible Materials**
Brass, copper, powdered metals, iron and iron salts, combustible materials

10.6 **Hazardous decomposition products**
No data available

### SECTION 11: TOXICOLOGICAL INFORMATION

11.1 **Information on toxicological effects**
Classified based on available data.

**Skin Corrosion/Irritation**
May cause skin irritation and/or dermatitis.

**Serious Eye Damage/Irritation**
Will cause eye discomfort, redness, and tearing of the eye

**Respiratory or Skin Sensitization**
May be irritating to the respiratory tract.

**Germ Cell Mutagenicity**
Classified based on available data.

**Carcinogenicity**
Classified based on available data.

**Reproductive Toxicity**
Classified based on available data.

**Specific Target Organ Toxicity – Single Exposure**
Classified based on available data.

**Specific Target Organ Toxicity – Repeated Exposure**
Respiratory system

**Aspiration Hazard**
Classified based on available data.

**Symptoms/Routes of Exposure**

<table>
<thead>
<tr>
<th>Route</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>May cause respiratory tract irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Skin</td>
<td>May be harmful if absorbed through skin. May cause skin irritation.</td>
</tr>
<tr>
<td>Eyes</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

Delayed/Immediate Effects: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**
Classified based on available data.

### SECTION 12: ECOLOGICAL INFORMATION

12.1 **Toxicity**
No data available

12.2 **Persistence and degradability**
No data available
12.3 **Bio accumulative potential**
   No data available

12.4 **Mobility in soil**
   No data available

12.5 **Results of PBT and vPvB assessment**
   No data available

12.6 **Other adverse effects**
   No data available

**SECTION 13: DISPOSAL CONSIDERATIONS**

13.1 **Waste treatment methods**
   Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

   **Contaminated Packaging**
   Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

**SECTION 14: TRANSPORT INFORMATION**

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.

14.1 **UN Number**
   Does not meet the criteria for classification as hazardous for transport.

14.2 **UN proper shipping name**
   Does not meet the criteria for classification as hazardous for transport.

14.3 **Transport hazard class(es)**
   Does not meet the criteria for classification as hazardous for transport.

14.4 **Packaging group**
   II

14.5 **Environmental hazards**
   Does not meet the criteria for classification as hazardous for transport.

14.6 **Special precautions for user**
   Does not meet the criteria for classification as hazardous for transport.

14.7 **Additional Transport Information**
   Does not meet the criteria for classification as hazardous for transport.

**SECTION 15: REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010

15.1 **Safety, health, and environmental regulations/legislation specific for the substance or mixture**
   **TSCA (Toxic Substances Control Act):** Hydrochloric Acid
   **SARA 313:** Not applicable
   **SARA 311/312:** Acute Health Hazard
   **CERCLA Reportable Quantity:** Not applicable.
   **California Proposition 65:** Not applicable

15.2 **Chemical safety assessment**
   A Chemical Safety Assessment has not been made for this product.
SECTION 16: OTHER INFORMATION

Further Information
Copyright © 2021 ACD. a Bio-Techne Brand
This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.
End of safety data sheet