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

1.1 Product Identifier
   Product Name: RNAscope™ HiPlex DAPI
   Product No: 324420

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
   7707 Gateway Blvd.
   Newark, CA 94560
   Telephone: (510) 576-8800
   Fax: (510) 576-8798
   Internet: www.acdbio.com
   Email address: info@acdbio.com

   Canada:
   21 Canmotor Avenue
   Toronto, Ontario M8Z4E6
   Canada
   Telephone: 1-855-668-8722
   Fax: 902-827-6402
   Email address: Canada.inquiries@bio-techne.com

   United Kingdom:
   19 Barton Lane
   Abingdon Science Park
   Abingdon, OX14 3NB
   United Kingdom
   Telephone: 44 (0)1235 529449
   Fax: 44 (0)1235 533420
   Email address: info.emea@bio-techne.com

   China
   1193 Changning Road
   Unit 1901, Raffles Changning
   Shanghai, China
   Telephone: 86-400-821-3475
   Office Fax: 76 (021)52371001
   Email address: techsupport.cn@bio-techne.com

1.4 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
   This substance does not meet the classification criteria of the EC Directives 67/548/EEC, 1999/45/EC, 1272/2008 [CLP], GHS or 29 CFR 1910.1200 [OSHA].

2.2 Label elements
   The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other Hazards
   None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
   Not applicable

3.2 Mixtures
   This product does not contain hazardous chemicals at concentrations of 1% or greater. This product is not known to contain carcinogens at concentrations of 0.1% or greater.

SECTION 4: FIRST AID AND MEASURES

4.1 Description of first aid measures

4.2 General Advice
   Consult a doctor and show this safety data sheet.
RNAscope HiPlex DAPI

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. 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.

4.3 Most important symptoms and effects, both acute and delayed.
To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

4.4 Indication of 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.

5.2 Special hazards arising from the substance or mixture.
Avoid inhalation of fumes, which may be toxic or irritating.

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.

6.2 Environmental Precautions
Do not let product enter drains.

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. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities.
Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

7.3 Specific end user(s)
Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
Components with workplace control parameters

8.2 Exposure controls
Protective equipment
Appropriate Engineering Controls
Use in a fume hood where applicable. 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.

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>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Lyophilized yellow solid powder or clear liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</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 Explosive Limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2 Other information
No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
Stable under recommended transport or storage conditions.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid
Heat, moisture.

10.5 Incompatible Materials
Strong acids/alkalis, strong oxidizing/reducing agents.

10.6 Hazardous decomposition products
Strong acids/alkalis, strong oxidizing/reducing agents.
SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute Toxicity
   Classified based on available data. 
Skin Corrosion / Irritation Classified based on available data. 
Serious Eye Damage / Irritation Classified based on available data. 
Respiratory or Skin Sensitization Classified based on available data. 
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 Classified based on available data. 
Aspiration Hazard Classified based on available data. 
Symptoms / Routes of Exposure
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. 
Ingestion: There may be irritation of the throat. 
Skin: There may be mild irritation at the site of contact. 
Eyes: There may be irritation and redness. 
Delayed/Immediate Effects: No known symptoms. 
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 Bioaccumulative 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
Product
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**  
Does not meet the criteria for classification as hazardous for transport.

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

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

**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):** Not applicable.
- **SARA 313:** Not applicable.
- **SARA 311/312:** Not applicable.
- **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

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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