SAFETY DATA SHEET
RNAscope® VS Blueing Reagent
According to Regulation (EC) No 1907/2006

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

1.1 Product Identifier
   Product Name   RNAscope® VS Blueing Reagent
   Product No   320632

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

1.3 Details of the supplier of the safety data sheet
   Company  Advanced Cell Diagnostics
   Telephone   +1 510-576-8800
   7707 Gateway Blvd.
   Newark, CA 94560
   Fax:   +1 510-576-8798
   Internet:  www.acdbio.com
   Email address: info.acd@bio-techne.com

   Canada:  21 Canmotor Avenue
   Toronto, Ontario M8Z4E6
   Telephone: +1 855-668-8722
   Fax:  +1 905-827-6402
   Email address: Canada.inquiries@bio-techne.com

   United Kingdom:  19 Barton Lane
   Abingdon Science Park
   Abingdon, OX14 3NB
   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
   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. 1-800-424-9300 Worldwide +1 703-527-3887
   Bio-Techne Tel: US: +1 612 379-2956 or +1 800-343-7475 / 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 1272/2008 [GHS/CLP], (EU) 878/2020, or

2.2 Label elements
   This product does not need to be labeled 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
   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.

**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.

4.2 **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.

4.3 **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**
This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2 **Special hazards arising from the substance or mixture**

#### Hazardous combustion products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

5.3 **Advice 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 discharge into drains, water courses or onto the ground.

6.3 **Methods and material for containment and cleaning up**
Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

6.4 **Reference to other sections**
Wear protective clothing as described in Section 8 of this safety data sheet.

### SECTION 7: HANDLING AND STORAGE

7.1 **Precautions for safe handling**
Avoid spilling, skin and eye contact.

7.2 **Conditions for safe storage, including any incompatibilities**
Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

7.3 **Specific end user(s)**
The identified uses for this product are detained in Section 1.2.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control Parameters**

#### Ingredient Comments
No exposure limits noted for ingredient(s).

8.2 **Exposure controls**
Protective equipment
Engineering measures
Provide adequate general and local exhaust ventilation.

Respiratory Equipment
No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand Protection
Use suitable protective gloves if risk of skin contact.

Eye Protection
If risk of splashing, wear safety goggles or face shield.

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

Other Protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using, do not eat, drink or smoke.

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 or solid</td>
</tr>
<tr>
<td>Odor</td>
<td>Little to none</td>
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<tr>
<td>Odor Threshold</td>
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</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>
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</tr>
<tr>
<td>Flash Point</td>
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<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
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</tr>
<tr>
<td>Upper/Lower Flammability or Explosive Limits</td>
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</tr>
<tr>
<td>Vapor Pressure</td>
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</tr>
<tr>
<td>Vapor Density</td>
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<tr>
<td>Relative Density</td>
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</tr>
<tr>
<td>Solubility</td>
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</tr>
<tr>
<td>Partition Coefficient</td>
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<tr>
<td>Autoignition Temperature</td>
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<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
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<tr>
<td>Viscosity</td>
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<tr>
<td>Explosive Properties</td>
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<tr>
<td>Oxidizing Properties</td>
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</tbody>
</table>

9.2 Other information
Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No specific reactivity hazards associated with this product.

10.2 Chemical stability
Stable under normal temperature conditions and recommended use.

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.

### 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

<table>
<thead>
<tr>
<th>12.1</th>
<th>Toxicity</th>
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<tr>
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<th>12.2</th>
<th>Persistence and degradability</th>
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<th>12.3</th>
<th>Bioaccumulative potential</th>
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<td>No data available on bioaccumulation</td>
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<thead>
<tr>
<th>12.4</th>
<th>Mobility in soil</th>
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<tbody>
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<tr>
<th>12.5</th>
<th>Results of PBT and vPvB assessment</th>
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<tbody>
<tr>
<td></td>
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<thead>
<tr>
<th>12.6</th>
<th>Endocrine disrupting properties</th>
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</thead>
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<tr>
<th>12.7</th>
<th>Other adverse effects</th>
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<tbody>
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<td>No data available</td>
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## SECTION 13: DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>13.1</th>
<th>Waste treatment methods</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Product</strong></td>
</tr>
<tr>
<td></td>
<td>Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.</td>
</tr>
<tr>
<td></td>
<td><strong>Contaminated Packaging</strong></td>
</tr>
<tr>
<td></td>
<td>Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.</td>
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</table>

## SECTION 14: TRANSPORT INFORMATION

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

<table>
<thead>
<tr>
<th>14.1</th>
<th>UN Number</th>
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<td></td>
<td>Does not meet the criteria for classification as hazardous for transport.</td>
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<table>
<thead>
<tr>
<th>14.2</th>
<th>UN proper shipping name</th>
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</table>
RNAscope® VS Blueing Reagent

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 Packing 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 user**
Does not meet the criteria for classification as hazardous for transport.

**14.7 Maritime transport in bulk according to IMO instruments**
Not applicable.

**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**

**Statutory Instruments**
- 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**

**Further 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