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

1.1 Product Identifier
   
   **Product Name**  RNAscope® 2.5 LS Rinse  
   **Product No**  322103  

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

1.2 Details of the supplier of the safety data sheet  
   
   **Company:** Advanced Cell Diagnostics  
   **Address:** 7707 Gateway Blvd.  
   **City:** Newark, CA 94560  
   **Telephone:** 1-800-343-7475  
   **Fax:** 1-612-656-4400  
   **Email address:** info@acdbio.com  

   **Canada:**  
   **Company:** 21 Canmotor Ave.  
   **City:** Toronto, ON M8Z4E6 Canada  
   **Telephone:** 1-855-668-8722  
   **Fax:** 902-827-6402  
   **Email address:** Canada.inquiries@bio-techne.com  

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

   **China:**  
   **Company:** 1193 Changning Road  
   **City:** Shanghai, China  
   **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  
   
   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  
   
   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>
</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>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2 Other information
No 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

12.1 Toxicity
No data available.

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available on bioaccumulation

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 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.

   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
   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
Copyright © 2021 acdbio, 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.