SAFETY DATA SHEET
RNAscope® 2.5 LSx Hematoxylin
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® 2.5 LSx Hematoxylin
Product No    322752

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
Supplier    Advanced Cell Diagnostics
7707 Gateway Blvd
Newark, CA 94560
Tel: (510) 576-8800

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification (EC 1272/2008)
Physical and Chemical   Not classified
Human health   Not classified
Environment   Not classified
Classification (1999/45/EEC)  Not classified

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2 Label elements
Label In Accordance with (EC) No. 1272/2008
No pictogram required.

2.3 Other Hazards
Not classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

SECTION 4: FIRST AID AND MEASURES

4.1 Description of first aid measures
Inhalation
Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion
NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin Contact
Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye Contact
Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed
General information
No specific information

4.3 Indication of any immediate medical attention and special treatment needed.
Treat Symptomatically.
**SECTION 5: FIRE FIGHTING MEASURES**

5.1 **Extinguishing Media**
   - **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**
   - **Special Fire Fighting Procedures**
     No specific firefighting procedure given.
   - **Protective equipment for fire fighters**
     Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 **Personal precautions, protective equipment and emergency procedures**
   Wear protective clothing as described in Section 8 of this safety data sheet.

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**

   ![Protective equipment icons]

   - **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.
   - **Other Protection**
     Wear appropriate clothing to prevent any possibility of skin contact.
SECTION 5: FIRE FIGHTING MEASURES

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
   Appearance  Liquid

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
   Not determined.

10.4 Conditions to avoid
   Avoid excessive heat for prolonged periods of time. Avoid contact with strong oxidizers. Avoid contact with strong reducing agents.

10.5 Incompatible Materials
   Materials to avoid
   Strong oxidizing substances. Strong reducing agents.

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
   Toxicological information
   No data on the toxicity of the formulation are available. The classification of the formulation is calculated based on the composition of hazardous components.

   Health warnings
   INHALATION: In high concentrations, vapors may irritate throat and respiratory system and cause coughing.
   INGESTION: May cause discomfort if swallowed. SKIN CONTACT: Liquid may irritate skin. EYE CONTACT: Spray and vapor in the eyes may cause irritation and smarting.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
   Acute Fish Toxicity
   Not considered toxic to fish.

12.2 Persistence and degradability
   Degradability
   No data available.

12.3 Bio accumulative potential
   Bio accumulative potential
   No data available on bioaccumulation.

12.4 Mobility in soil
   Mobility
   No data available.

12.5 Results of PBT and vPvB assessment
   Not classified as PBT/vPvB by current EU criteria.
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12.6 Other adverse effects
Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

General Information
Waste is classified as hazardous waste. Dispose to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1 Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

Road Transport Notes Not classified.
Rail Transport Notes Not classified.
Sea Transport Notes Not classified.
Air Transport Notes Not classified.

14.1 UN Number
Not applicable.

14.2 UN proper shipping name
Not applicable.

14.3 Transport hazard class(es)
Not applicable.

14.4 Packing group
Not applicable.

14.5 Environmental hazards
Environmentally Hazardous Substance/Marine Pollutant No.

14.6 Special precautions for user
Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Statutory Instruments

Approved Code of Practice
Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes
Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

15.2 Chemical Safety Assessment
No chemical safety assessment has been carried out.
SECTION 16: OTHER INFORMATION

Risk Phrases in Full
NC Not classified.

Disclaimer
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company’s knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user’s responsibility to satisfy himself as to the suitability of such information for his own particular use.