

**SAFETY DATA SHEET**  
**RNAscope® DAPI**  
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® DAPI  
Product No 320858

**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  
3960 Point Eden Way  
Hayward, CA 94545  
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	Mutagenicity category 1
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**

Contains Fast Red KL Salt  
Hydrochloric acid....%

Label In Accordance with (EC) No. 1272/2008



Signal word Danger  
Hazard statements

H340 May cause genetic defects

Precautionary Statements

P281 Use personal protective equipment as required  
P308+P313 IF exposed or concerned: Get medical advice/attention

Supplemental label information

RCH002 Restricted to professional users

**2.3 Other Hazards**

Not classified as PBT/vPvB by current EU criteria.

Potential Health Effects

Eyes	May cause eye irritation with susceptible persons
Skin	May cause skin irritation in susceptible persons
Inhalation	May be harmful by inhalation
Ingestion	May be harmful if swallowed

Specific effects

Carcinogenic effects	None
Mutagenic effects	Mutagenic category 1 substances known to be mutagenic to man
Reproductive toxicity	None
Sensitization	None
Target Organ effects	No known effects under normal use conditions

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixtures**

4",6-diamidino-2-phenylindole dilactate (DAPI, dilactate	<0.1%
CAS-No: 28718-91-4	EC No.: None

The full test for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: FIRST AID AND MEASURES**

**4.1 Description of first aid measures**

**Inhalation**

Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

**Ingestion**

Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

**Skin Contact**

Rinse cautiously with water for several minutes. If symptoms occurs, obtain medical advice.

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist call a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

**General information**

Avoid further exposure to product. Consult a physician.

**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**

Water spray, carbon dioxide, foam, dry chemical.

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

**Hazardous combustion products**

Avoid inhalation of fumes, which may be toxic or irritating.

**5.3 Advice for fire fighters**

**Special Fire Fighting Procedures**

No specific fire fighting procedure given.

**Protective equipment for fire fighters**

Wear self-contained breathing apparatus and protective suit.

**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**

Prevent further leakage or spillage if safe to do so.

**6.3 Methods and material for containment and cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

**6.4 Reference to other sections**

See section 12 for more information.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Always wear recommended personal protective equipment.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep in a dry, cool and well-ventilated place.

# RNAscope® DAPI

## 7.3 Specific end user(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

#### Ingredient Comments

USA ACGIH Threshold Limit Values (Hydrochloric acid): C, 2ppm

USA Occupational Exposure Limits (OSHA) (Hydrochloric Acid): C, 5ppm

### 8.2 Exposure controls

Protective equipment



#### Engineering measures

Ensure adequate ventilation, especially in confined areas.

#### Respiratory Equipment

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Hand Protection

Impervious gloves.

#### Eye Protection

Wear safety glasses with side shields (or goggles).

#### Other Protection

Lightweight protective clothing. Prevent product from entering drains.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance Yellow solid

Water solubility Moderate

### 9.2 Other information

No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No specific reactivity hazards associated with this product.

### 10.2 Chemical stability

Stable under recommended storage conditions (see Section 7).

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible Materials

No data available

### 10.6 Hazardous decomposition products

None under normal use conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Not hazardous

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

There are no data on the ecotoxicity of this product.

**12.1 Toxicity**

Acute Fish Toxicity

Not considered toxic to fish

**12.2 Persistence and degradability**

Degradability

No data available

**12.3 Bioaccumulative potential**

Bioaccumulative potential

Does not bioaccumulate

**12.4 Mobility in soil**

Mobility

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

Not determined

**SECTION 13: DISPOSAL CONSIDERATIONS****General Information**

Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority

**13.1 Waste treatment methods**

Disposal should be in accordance with applicable national, state and local regulations. Local regulations may be more stringent than national or state requirements. Verify local and state regulations before discharging into public sewers or landfills. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN Number**

Not applicable

**14.2 UN proper shipping name**

Not applicable

**14.3 Transport hazard class(es)**

Not applicable

**14.4 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****Environmental Listing**

Rivers (Prevention of Pollution) Act of 1961. Control of Pollution (Special Waste Regulations) Act of 1980.

**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 HSG(108).

## RNAscope® DAPI

### EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments

### SARA 302 Components

No chemicals in this product are subject to reporting requirements

### SARA 313 Components

Hydrochloric acid, CAS 7647-01-0

### SARA 311/312 Hazards

Acute Health Hazard (Hydrochloric Acid)

### California Prop 65 components

This product does not contain any chemicals know to the State of California to cause cancer, birth defects, or any other reproductive harm.

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## SECTION 16: OTHER INFORMATION

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SDS No.	Version 01
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Hazard Statements in Full	
H340	May cause genetic defects

## 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 us