

**SAFETY DATA SHEET**  
**RNAscope® Fast Red A**  
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® Fast Red A  
Product No 320458

**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	Skin Corr. 1B H314
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

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H371	May cause damage to organs

Precautionary Statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves/protective clothing/face protection/eye protection
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or a doctor/physician.

Supplemental label information

RCH002	Restricted to professional users
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**2.3 Other Hazards**

Not classified as PBT/vPvB by current EU criteria.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Fast Red KL Salt	0.1-5%
CAS-No: 677706-33-1	EC No.: None
Hydrochloric acid	1-10%
CAS-No: 7647-01-0	EC No.: 231-595-7
Classification (EC 1272/2008) Skin Corr. 1B H314	Classification (67/548/EEC) C: Corrosive Xi: Irritant

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 victim to well-ventilated area. If victim is not breathing, give artificial respiration. Seek medical attention.

#### Ingestion

If victim is conscious, rinse mouth with water. Do not give anything to an unconscious victim. Seek medical attention.

#### Skin Contact

Wash exposed area with soap and plenty of water. Remove any contaminated clothing. Seek medical attention.

#### Eye Contact

Wash eyes with plenty of water for at least 15 minutes. Have victim remove contact lenses. Be sure to wash under eyelids. Seek medical attention.

### 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, alcohol-resistant foam, dry chemical, or carbon dioxide. Use extinguisher media appropriate for surrounding fire.

### 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 clothing to prevent contact with eyes and skin.

## 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

Small spills may be contained and cleaned up with paper towels or absorbent pads. Absorb large spills with sand or vermiculite and place in a closed container for waste disposal. Avoid physical contact during removal.

### 6.4 Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

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## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with eyes, skin and clothing. Do not ingest. Wash hands thoroughly after use.

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

Keep container tightly closed. Keep container in a cool, well-ventilated area.

### 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

No special controls needed.

#### Respiratory Equipment

Exceeding exposure limits is unlikely during normal usage. However, if irritation vapors are produced, respiratory protection is recommended. Attempt to reduce exposure levels to an acceptable range.

#### Hand Protection

Use chemically resistant gloves and a lab coat with sleeves.

#### Eye Protection

Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

#### Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

#### Hygiene measures

Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling and before eating or drinking.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance

Colorless to orange, clear solution

### 9.2 Other information

Solubility (in water)

Soluble

## 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

Not determined

### 10.4 Conditions to avoid

Keep away from incompatible materials.

### 10.5 Incompatible Materials

Materials to avoid

Bases, amines, alkali metals, potassium permanganate

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## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions; carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

Toxicological information

Single STOT (specific target organ toxicity) Exp. 3 H335

Route of entry

Inhalation

Target Organs

Respiratory tract

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## SECTION 12: ECOLOGICAL INFORMATION

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### 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

No data available on bioaccumulation

### 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

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### 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.

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## SECTION 14: TRANSPORT INFORMATION

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### 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).

**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 known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16: OTHER INFORMATION**

SDS No.	Version 01
Date	June 2015
Risk Phrases in Full	
R34	Causes burns
R37	Irritating to respiratory system
Hazard Statements in Full	
H290	May be corrosive to metals
H314	Causes skin irritation
H371	Harmful if inhaled

**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