

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 use in diagnostic procedures.

1.3 Details of the supplier of the safety data sheet

Company:	Advanced Cell Diagnostics 7707 Gateway Blvd. Newark, CA 94560	Telephone: +1 510-576-8800 Fax: +1 612-656-4400 Internet: www.acdbio.com Email address: info@acdbio.com
Canada:	21 Canmotor Ave. Toronto, ON M8Z4E6 Canada	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

Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]

Corrosive to metals – Category 1
Skin Irritation – Category 2
Eye Irritation – Category 2A
STOT SE – Category 3

2.2 Label Elements

Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP]

Pictogram(s):



Signal Word: Warning

Statement(s):
H290 May be corrosive to metals.

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Precautionary Statements	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H335	May cause respiratory irritation.
	P234	Keep only in original container.
	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264	Wash skin thoroughly after handling.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/eye protection/face protection.
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P312	Call POISON CENTER/doctor if you feel unwell.
	P332+P313	If skin irritation occurs: Get medical advice/attention.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P362	Take off contaminated clothing and wash before reuse.
	P390	Absorb spillage to prevent material damage.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.
	P406	Store in corrosive resistant stainless-steel container with a resistant inner liner.
	P501	Dispose of contents/container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Hydrochloric acid	1-10%
CAS-No: 7647-01-0	EC No.: 231-595-7

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.

In Case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Remove contact lenses if easy to do so. 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.

Inhalation

Vapors may be irritating to the eyes and the respiratory tract.

Skin

May cause skin irritation.

Eyes

Will cause eye discomfort and redness.

Ingestion

Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

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

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use large quantities of water applied as a mist or spray. Solid streams of water may be ineffective. Cool affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture.

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

5.3 Precautions 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. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

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.

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Use in a well-ventilated area. Do not eat, drink, or smoke in laboratory areas. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.

7.2 Conditions for safe storage, including any incompatibilities.

Store in cool, well-ventilated area. Store locked up. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage. Keep away from heat, sparks, flame, and other sources of ignition.

7.3 Specific end user(s)

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

ACGIH CLV TWA – 2 ppm

OSHA CLV TWA – 5 ppm

Appropriate Engineering Controls

Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station. Prevent dispersion of dust. Avoid contact with skin, eyes, and clothing.

Wash hands before breaks and immediately after handling product.

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Personal Protective Equipment Eye / Face Protection

Use appropriate safety glasses.

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.

Body Protection

Wear appropriate protective clothing.

Respiratory Protection

If risk assessment indicates necessary, use a suitable respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid	Vapor Pressure	No data available
Odor	Little to none	Vapor Density	No data available
Odor Threshold	No data available	Relative Density	No data available
pH	No data available	Solubility	No data available
Melting / Freezing Point	No data available	Partition Coefficient	No data available
Boiling Point / Range	No data available	Autoignition Temperature	No data available
Flash Point	No data available	Decomposition Temperature	No data available
Evaporation Rate	No data available	Viscosity	No data available
Flammability (Solid, Gas)	No data available	Explosive Properties	No data available
Upper/Lower Flammability or Explosive Limits	No data available	Oxidizing Properties	No data available

9.2 Other information

Not Available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Generates dangerous gases or fumes in contact with: Aluminum, hydrides, formaldehyde, metals, strong alkalis, sulfides.

10.4 Conditions to avoid.

Heat, flames, sparks

10.5 Incompatible Materials

Metals, metal alloys

10.6 Hazardous decomposition products

Nitrogen oxides, carbon monoxide, carbon dioxide, hydrogen cyanide, ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Classified based on available data.

Skin Corrosion/Irritation

Will cause eye discomfort, redness, and tearing of the eye.

Respiratory or Skin Sensitization

May be irritating to the respiratory tract.

Germ 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

Respiratory system

Aspiration Hazard

Classified based on available data.

Symptoms/Routes of Exposure

Inhalation: May cause respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: Causes serious eye irritation.

Delayed/Immediate Effects: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

Classified based on available data.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

LC50 – 862 mg/L, 96h (Leuciscus idus)

12.2 Persistence and degradability

No data available

12.3 Bio accumulative potential

No data available

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

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

UN1789

14.2 UN proper shipping name

Hydrochloric Acid

14.3 Transport hazard class(es)

8

14.4 Packaging group

II

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 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

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SDS 320458/Rev G/Effective 2023/11/09

- 15.1 **Safety, health, and environmental regulations/legislation specific for the substance or mixture**
TSCA (Toxic Substances Control Act): Hydrochloric Acid
SARA 313: Hydrochloric Acid
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