

SAFETY DATA SHEET

RNAscope® 2-plex AMP 4B

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-plex AMP 4B
Product No 320717

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 determined
Human health	Not determined
Environment	Not determined

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

3.2 Mixtures

Methylisothiazolone	<0.1 %
CAS-No: 2682-20-4 EC No.: 220-239-6	
Bromonitrodioxane	<0.1%
CAS-No: 30007-47-7 EC No.: 250-001-7	

The full text 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

In case of inhalation of spray mist; move person into fresh air and keep at rest. Rinse nose and mouth with water. Get medical attention if any discomfort continues..

Ingestion

If swallowed, consult with medical staff or poison control center to determine if any immediate response or follow-up actions are recommended.

Skin Contact

Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

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Eye Contact

Promptly wash eyes with plenty of water or normal saline for at least 15 minutes while lifting the eyelids. Make sure to remove any contact lenses from the eyes before rinsing. Seek medical attention if any discomfort or irritation develops.

4.2 Most important symptoms and effects, both acute and delayed

General information

No adverse acute effects are expected.

4.3 Indication of any immediate medical attention and special treatment needed.

No specific first aid measures noted.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Extinguishing Media

This product is not flammable. Use fire-extinguishing media appropriate for the surrounding materials.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Toxic fumes of carbon monoxide, carbon dioxide, and nitrogen oxides. No unusual fire or explosion hazards noted.

5.3 Advice for fire fighters

Special Fire Fighting Procedures

No specific fire fighting procedure given.

Wear protective equipment appropriate for the surrounding area.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use protective gloves, goggle, and suitable protective clothing.

6.2 Environmental Precautions

No information available.

6.3 Methods and material for containment and cleaning up

Absorb spillage with suitable absorbent material and place in a disposal container.

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

Refer to Section 8 for recommended precautionary measures during handling. Good personal hygiene is necessary.

7.2 Conditions for safe storage, including any incompatibilities

Keep in original container with lid tightly closed. Store at specified temperature. Refer to product label.

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

No exposure limits have been established.

8.2 Exposure controls



Protective equipment

Engineering measures

Provide eyewash station and safety shower near location of use.

Respiratory Equipment

Provide adequate ventilation

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Hand Protection

Use suitable protective gloves, e.g. disposable rubber gloves, if risk of skin contact.

Eye Protection

If risk of splashing, wear safety goggles or face shield.

Other Protection

Wear apron or protective clothing in case of contact.

Hygiene measures

Practice good chemical hygiene when handling. Avoid contact with eyes, skin and clothing. Wash promptly if skin becomes wet or contaminated and promptly remove any clothing that becomes contaminated. When using, do not eat, drink or smoke. Do not ingest material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, light yellow liquid
Physical state	Liquid
Odor	No characteristic odor
Solubility	Soluble in water
Initial boiling point and range	100°C @ 760 mm Hg
pH	5.5-6.5
Flammability	Not flammable

9.2 Other information

Not determined

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur

10.4 Conditions to avoid

None identified.

10.5 Incompatible Materials

None identified

10.6 Hazardous decomposition products

Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Although complete toxicity information on the product is not available, none of its components are known to be toxic or hazardous at use concentrations. The product contains the mercury-free preservatives methylisothiazolone (<0.1%) and bromonitrodioxane (<0.1%), which can produce adverse health effects in their concentrated forms.

Chemical Name	Exposure routes	Method	Dose	Species	Source
Bromonitrodioxane	oral	LD50	455 mg/kg	Rat	
	oral	LD50	590 mg/kg	Mouse	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

There are no data on the ecotoxicity of this product.

12.1 Toxicity

Acute Fish Toxicity

Not determined

12.2 Persistence and degradability

No data available

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12.3 Bioaccumulative potential

Bioaccumulative potential
No data available on bioaccumulation

12.4 Mobility in soil

Mobility
The product is soluble in water

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

General Information

When handling waste consideration should be made to the safety precautions applying to handling of the product.

13.1 Waste treatment methods

Dispose of waste and residues in accordance with all federal, state and local requirements.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

Non-regulated, non-hazardous for transport.

14.2 UN proper shipping name

Non-regulated, non-hazardous for transport

14.3 Transport hazard class(es)

Non-regulated, non-hazardous for transport

14.4 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

Not available

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

No chemical safety assessment has been carried out

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SECTION 16: OTHER INFORMATION

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General Information:

Only trained personnel should use this material

Hazard codes:

N Dangerous for the environment
C Corrosive
Xn Harmful

Risk Phrases in Full

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
R22 Harmful if swallowed.
R34 Causes burns
R43 May cause sensitization by skin contact
R50/53 Very toxic to aquatic organisms may cause long-term adverse effects.

Safety Statements in Full

S24 Avoid contact with skin
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39 Wear suitable protective clothing, gloves, and eye/face protection
S45 In case of accident or if you feel unwell, seek medical advice immediately
S60 This material and/or its container must be disposed of as hazardous waste
S61 Avoid release to the environment

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.