



# SAFETY DATA SHEET

## RNAscope® VS Duplex AMP 2

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® VS Duplex AMP 2  
Product No 323312

#### 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	Repr. 1B – H360D
Environment	Not classified

Classification (1999/45/EEC)

Repr. Cat. 2;R61.

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

#### 2.2 Label elements

Contains FORMAMIDE  
METHYL-2H or METHYL-4 (3:1) Mixture of EC No. 220-239-6  
Label In Accordance with (EC) No. 1272/2008



Signal word

Danger

Hazard statements

H360D	May damage the unborn child.
H317	May cause allergic skin reaction

Precautionary Statements

P201	Obtain special instructions before use.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P501	Dispose of contents/container in accordance with national regulations.

Supplemental Precautionary Statements

P272	Contaminated work clothing should not be allowed out of the workplace.
P261	Avoid breathing vapor/spray.
P321	Specific treatment (see medical advice on this label.)
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.

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.

## RNAscope® VS Duplex AMP 2

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Mixtures

Formamide	>30%
CAS-No: 75-12-7                      EC No.: 200-842-0	
Classification (EC 1272/2008) Repr. 1B – H360D	Classification (67/548/EEC) Repr. Cat. 2;R61
METHYL-2H or METHYL-4 (3:1) Mixture of EC No. 220-239-6	< 1%
CAS-No: 55965-84-9                      EC No.:	
Classification (EC 1272/2008) Acute Tox. 3 – H301 Acute Tox. 3 – H311 Acute Tox. 3 – H331 Skin Corr. 1B – H314 Skin Sens. 1 – H317 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410	Classification (67/548/EEC) T;R23/24/25 C;R34 R43 N;R50/53

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

##### General information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

##### Inhalation

Move the exposed person to fresh air at once. Provide rest, warmth, and fresh air. Get medical attention if any discomfort continues. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

##### Ingestion

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Provide rest, warmth and fresh air. Get medical attention.

##### Skin Contact

Remove affected person from source of contamination. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

##### Eye Contact

Remove victim immediately from source of exposure. 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 and get medical attention.

#### 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

Cool containers exposed to flames with water until well after the fire is out. Move container from fire area if it can be done without risk. Dike and collect extinguishing water.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

##### Protective equipment for fire fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.



## RNAscope® VS Duplex AMP 2

### 10.3 Possibility of hazardous reactions

Not determined.

### 10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition. 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.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

#### Toxicological information

This material is toxic.

#### Health warnings

INGESTION: May cause stomach pain or vomiting. INHALATION: May cause irritation to the respiratory system. SKIN

CONTACT: May cause skin irritation/eczema. May cause sensitization by skin contact. EYE CONTACT: Irritating to eyes.

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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

No data available.

### 12.2 Persistence and 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.

### 12.6 Other adverse effects

Not determined.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### 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.

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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)

ADR/RID/AND Class

Not classified for transportation.

### 14.4 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No

### 14.5 Special precautions for user

Not applicable

### 14.6 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.

**Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

**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. Introduction to Local Exhaust Ventilation HS(G)37. CHIP HSG(108).

**EU Legislation**

System of specific information relating to Dangerous Preparations. 2001/58/EC. 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.

**15.2 Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

Risk Phrases in Full

- R34 Causes burns.
- R35 Causes severe burns.
- R61 May cause harm to the unborn child.
- NC Not classified.
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements in Full

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes skin irritation
- H317 May cause an allergic skin reaction.
- H331 Toxic if inhaled.
- H360D May damage the unborn child.
- H410 Very toxic to aquatic life with long-lasting effects.

**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.