

## SAFETY DATA SHEET RNAscope® VS Universal HRP 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 Universal HRP AMP 2 Product No 323212 1.2 Relevant identified uses of the substance or mixture and uses advised against For Research Use Only. Not for use in diagnostic procedures. Identified uses 1.3 Details of the supplier of the safety data sheet Advanced Cell Diagnostics +1 510-576-8800 Company Telephone 7707 Gateway Blvd. Fax: +1 510-576-8798 Newark, CA 94560 Internet: www.acdbio.com Email address: info.acd@bio-techne.com Canada: +1 855-668-8722 21 Canmotor Avenue Telephone: Toronto, Ontario M8Z4E6 Fax: +1 905-827-6402 Canada Email address: Canada.inquiries@bio-techne.com United Kingdom: 19 Barton Lane Telephone: +44 (0)1235 529449 +44 (0)1235 533420 Abingdon Science Park Fax: Abingdon, OX14 3NB Email address: info.emea@bio-techne.com China 1193 Changning Road Telephone: +86 400-821-3475 Unit 1901, Raffles Changning +76 (021)52371001 Fax: Shanghai, China 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 in accordance with (EC) 1272/2008 [GHS/CLP], (EU) 2020/878, 29 CFR 1910.1200 [OSHA] Carcinogen – Category 2 Reproductive Toxicity – Category 1B STOT RE – Category 2

#### 2.2 Label elements

Label in Accordance with (EC) 1272/2008 [GHS/CLP]



Signal word:DangerStatement(s):Hazard Statement(s)H351Suspected of causing cancer.H360May damage fertility or the unborn child.H373May cause damage to liver, kidney, and blood.Precautionary Statement(s):P201Obtain special instructions before use.P202Do not handle until all safety precautions have been read and understood.

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

P314 Get medical advice/attention if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

EC No.: 200-842-0

### 3.1 Mixtures

Formamide

≤50%

### SECTION 4: FIRST AID AND MEASURES

### 4.1 Description of first aid measures

### **General Advice**

CAS-No: 75-12-7

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 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

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.

### Hazardous combustion products

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 Advice 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**

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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 let product enter drains.
- 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 TLV TWA – 10 ppm OSHA PEL TWA – 20 ppm

8.2 Exposure controls Protective equipment



### **Engineering measures**

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.

### **Respiratory Equipment**

If risk assessment indicates necessary, use a suitable respirator.

### **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.

### **Eye Protection**

Use approved safety goggles or face shield.

### **Body Protection**

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

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly reomve any clothing that becomes contaminated. When using, do not eat, drink or smoke.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Clear liquid	Vapor Pressure	No data available
Odor	Ammonia like	Vapor Density	No data available
Odor Threshold	No data available	<b>Relative Density</b>	No data available
pH	4-5	Solubility	No data available

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### **RNAscope® VS Universal HRP AMP 2**

Melting / Freezing Point Boiling Point / Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper/Lower Flammability or Explosive Limits No data available 210 °C 175 °C No data available No data available No data available Partition Coefficient Autoignition Temperature Decomposition Temperature Viscosity Explosive Properties Oxidizing Properties No data available No data available No data available No data available No data available

No data available

### 9.2 **Other information** No data available

### SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3 **Possibility of hazardous reactions**

No data available.

10.4 **Conditions to avoid.** Heat, flames, sparks

# 10.5 **Incompatible Materials**

Strong oxidizing substances. Strong reducing agents.

### 10.6 Hazardous decomposition products

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

### SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

	Acute Toxicity			
	LD50 Oral (rat) - 55	577 mg/kg		
	LC50 Inhalation (ra	at) - >3900 ppm.		
	Skin Corrosion / In	ritation		
	May cause skin irri	tation and/or dermatitis.		
	Serious Eye Dama	ge / Irritation		
	Will cause eye disc	omfort, redness, and tearing o	f the eye.	
	Respiratory or Ski	n Sensitization		
	May be irritating to	o the respiratory tract.		
	Germ Cell Mutage	nicity		
	Classified based on	available data.		
	Carcinogenicity			
	Possible cancer haz	ard. May cause cancer based o	n animal data.	
	<b>Reproductive Toxi</b>	city		
	May cause harm to	the unborn child. Developme	ntal effects have occurre	d in experimental animals.
	Specific Target Or	gan Toxicity - Single Exposur	e	
	Classified based on	available data.		
	Specific Target Or	gan Toxicity - Repeated Expos	sure	
	Liver, kidney, bloo	d.		
	Aspiration Hazard			
	Classified based on	available data.		
	Symptoms / Route	s of Exposure		
	Inhalation:	May cause respiratory tract in	ritation.	
	Ingestion:	Harmful if swallowed.		
	Skin:	May be harmful if absorbed t	hrough skin. May cause	skin irritation.
	Eyes:	Causes serious eye irritation.		
	Delayed/Immediate	e Effects:		
	To the best of our k	mowledge, the chemical, physi	cal, and toxicological pr	operties have not been thoroughly
	investigated.			
	Additional Inform	ation		
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Classified based on available data.

SECTION 12: ECOLOGICAL INFORMATION
12.1 Toxicity
LC50 – 9135 mg/L, 96h (brachydanio rerio)
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 Endocrine disrupting properties
No data available
12.7 Other adverse effects
No data available
SECTION 13: DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods
Product
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
Does not meet the criteria for classification as hazardous for transport.
14.2 UN proper shipping name
Does not meet the criteria for classification as hazardous for transport.
14.3 Transport hazard class(es)
Does not meet the criteria for classification as hazardous for transport.
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14.4 Packaging Group
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### **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