

Safety Data Sheet

Version A SDS Revision Date 4/4/2024 Effective Date: 04/18/2024 **www.acdbio.com**

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

 Product Identifiers

 Product Name:
 RNAscope™ HiPlex Pro AMP 1

Product Number: 322074 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	Telephone:	1-510-576-8800
	7707 Gateway Blvd	Fax:	1-510-576-8798
	Newark, CA. 94560, USA	Internet:	www.acdbio.com
		Email address:	info.acd@bio-techne.com

1.4 Emergency Telephone Number

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: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475

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].

Carcinogenicity - Category 2

Reproductive Toxicity - Category 1B

Specific target organ toxicity, repeated exposure - Category 2

2.2 Label Elements

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

Pictogram(s):



Signal word: DANGER.

Hazard Statement(s):

H351 Suspected of causing cancer

H360 May damage fertility or the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s):

P203 Obtain, read and follow all safety instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection

P318 If exposed or concerned, get medical advice.

P319 Get medical help if you feel unwell.

P405 Store Locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Other Hazards - None

	COMPOSITION/INFORMA	ATION ON INGREDIENTS						
5.1	Substances							
	Not applicable.							
3.2	Mixtures	0 • 0 •			0 1 17 11			
	Component	CAS No.	EC No.	Index No.	Classification	Conc.		
	Formamide	75-12-7	200-842-0	616-052-00-8	H351,H360, H373	≤30%		
	FIRST AID MEASURES							
1.1	Description of first aid measures							
	General Advice							
	Consult a doctor and show th	nis safety data sheet.						
	If Inhaled							
	Remove to fresh air and mon	itor breathing. If breathing beco	omes difficult, give oxygen. If	breathing stops, give artificial re	espiration. Consult a doctor.			
	In Case of Skin Contact							
	-	opious amounts of soap and w	ater for at least 15 minutes. F	Remove contaminated clothing a	and shoes and wash before reuse. Consul	t a doctor.		
	In Case of Eye Contact							
		of water for at least 15 minutes	Consult a doctor.					
	If Swallowed							
		-	-	al personnel. Never give anyth	ning by mouth to an unconscious persor	n. Consult a doctor.		
2		and effects, both acute and o	•					
	-			ot been thoroughly investigated.				
3	Indication of immediate me	dical attention and special tr	eatment needed					
	Show this safety data sheet to	o the doctor in attendance. Imn	nediate medical attention is re	equired.				
	FIRE-FIGHTING MEASUR	RES						
5.1	Extinguishing Media							
	Suitable extinguishing med	lia						
		na stant foam, dry chemical or car	hon dioxide					
52		m the substance or mixture	borr dioxide.					
52		c fumes. Keep product and em	at container away from bea	t and courses of ignition				
5.3	-		ply container away from hea	and sources or ignition				
5	Precautions for fire-fighters Wear suitable protective cloth	ing to prevent contact with skir	and eyes and self-contained	d breathing apparatus.				
	ACCIDENTAL RELEASE	MEASURES						
1			ncy procedures					
	Personal precautions, protective equipment and emergency procedures							
	Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.							
2	Environmental precautions	6						
	Do not let product enter drain	IS.						
3	Methods and materials for	containment and cleaning up	1					
	Cover spillage with suitable a	absorbent material. Hold all ma	terial for appropriate disposa	l as described under section 13 o	of SDS.			
4	Reference to other sections							
	For required PPE see section	n 8. For disposal see section 13	ł.					
	HANDLING AND STORAG	26						
	Precautions for safe handlin							
.1		0						
	or repeated exposure.	in eyes, skin and clothing. Av	old the formation of dust ar	id aerosols. Use in a well-venti	ilated area. Keep away from sources of	Ignition. Avoia proiongea		
2	Conditions for safe storage	e, including any incompatibili	ies					
	Store in cool, well-ventilated a	area. Keep away from direct su	nlight. Keep container tightly	sealed until ready for use.				
3	Specific end uses							
	Not applicable.							
	EXPOSURE CONTROLS/	PERSONAL PROTECTION						
	Control parameters							
.1	Control parameters Components with workplace	ce control parameters						
	-	ce control parameters						
	Components with workplac	ce control parameters						

TWA 20 ppm 30 mg/m3 OSHA P0 STEL 30 ppm 45 mg/m3 OSHA P0

8.2

Appropriate Engineering Controls

Use in a fume hood where applicable. 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.

Personal Protective Equipment

Eye / Face Protection

Exposure controls

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Flash Point Evaporation Rate	175 C No data available.	Decomposition Temperature Viscosity	No data available. No data available.
Boiling Point / Range	210 C	Autoignition Temperature	No data available.
Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
рН	4-5	Solubility(ies)	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
Odor	Ammonia like	Vapor Density	No data available.
Appearance	Clear liquid	Vapor Pressure	No data available.

92 Other safety information

No data available.

10.	STABILITY AND REACTIVITY
10.1	Reactivity
	Stable under recommended transport or storage conditions.
10.2	Chemical stability
	Stable under recommended storage conditions.
10.3	Possibility of hazardous reactions
	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
10.4	Conditions to avoid
	Heat, flames, sparks, moisture.
10.5	Incompatible materials
	Strong oxidizing agents. Strong reducing agents.
10.6	Hazardous decomposition products
	Nitrogen oxides, carbon monoxide, carbon dioxide, hydrogen cyanide, ammonia.
11.	TOXICOLOGICAL INFORMATION
11.1	Information on toxicological effects Acute Toxicity
	LD50 Oral (rat) – 5577 mg/kg LC50
	Inhalation (rat) - >3900 ppm.
	Skin Corrosion / Irritation
	Classified based on available data
	Serious Eye Damage / Irritation
	Classified based on available data
	Respiratory or Skin Sensitization

Classified based on available data

Germ Cell Mutagenicity

	Classified based on availab	le data		
	Carcinogenicity			
	Classified based on available data			
	Reproductive Toxicity			
	Classified based on availabl	e data		
	Specific Target Organ Tox	icity - Single Exposure		
	Classified based on available	e data		
	Specific Target Organ Tox	icity - Repeated Exposure		
	Classified based on available	e data		
	Aspiration Hazard			
	Classified based on available			
	Symptoms / Routes of Exp			
	Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.		
	Ingestion:	May cause gastrointestinal upset.		
	Skin:	May irritate the skin.		
	Eyes:	There may be irritation and redness.		
	Delayed / Immediate Effe	cts: No known symptoms		
	Additional Information No known symptoms.			
	Classified based on available	e data		
12.	ECOLOGICAL INFORMA	ATION		
12.1	Toxicity			
	LC50 – 9135 mg/L, 96 h (bra	achydanio rerio).		
12.2	Persistence and degradab	lity		
	No data available.			
12.3	Bioaccumulative potential			
	No data available.			
12.4	Mobilityin soil			
	No data available.			
12.5	Results of PBT and vPvB a	assessment		
	No data available.			
12.6	Other adverse effects			
	No data available.			
13.	DISPOSAL CONSIDERA	TIONS		
13.1	Waste treatment methods			
	Product			
	Transfer to a suitable contair	ner and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.		
	Contaminated Packaging			
	Dispose of in a regulated lan	dfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.		
14.	TRANSPORT INFORMA	TION		
	Classified according to the c	riteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.		
14.1	UNNumber			
	Does not meet the criteria for	or classification as hazardous for transport.		
14.2	UN proper shipping name			
	Does not meet the criteria for	or classification as hazardous for transport.		
14.3	Transport hazard class(es)			
	Does not meet the criteria for	or classification as hazardous for transport.		
14.4	Packaging group			
		or classification as hazardous for transport.		
14.5	Environmental hazards			
	Does not meet the criteria fo	r classification as hazardous for transport.		
14.6	Special precautions for us	ers		
	Does not meet the criteria fo	or classification as hazardous for transport.		
14.7	Additional Transport Inform	mation		
	Does not meet the criteria fo	or classification as hazardous for transport.		

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act) : Listed SARA 313 : Listed SARA 311/312 : Listed CERCLA Reportable Quantity : None.

California Proposition 65 : Not applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

OTHER INFORMATION

16.

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