

SAFETY DATA SHEET
RNAscope® Green-A
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® Green-A
Product No 320718

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	Flam.Liq.2, Acute Tox. 3, Acute Tox. 3, Acute Tox 3. STOT SE 1
Human health	Skin Corr. 1A H314
Environment	Not classified

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

Contains Methanol
Hydrogen peroxide.....%

Label In Accordance with (EC) No. 1272/2008



Signal word Danger

Hazard statements

H225
H301+H311+H331
H370

Highly flammable liquid and vapour.
Toxic if swallowed, if in contact with skin or inhaled.
Causes damage to organs.

Precautionary Statements

P210
P233
P240
P241
P242
P243
P260
P270
P271
P301+P310
P330
P304+P340
P312

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion proof electrical/ventilating/lighting equipment
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapour/spray.
Do not eat, drink or smoke while using this product.
Use only outdoors or in a well ventilated area.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Rinse Mouth.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or a doctor/physician.

RNAscope® Green-A

P307+P311 P280	IF EXPOSED: Call a POISON CENTER or a doctor/physician Wear protective gloves/protective clothing/face protection/eye protection
P303+P361+P353	IF ON SKIN: Wash with plenty of soap and water
Supplemental label information RCH002	Restricted to professional users.

2.3 Other Hazards

Not classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Methanol	60 – 80 %
CAS-No: 67-56-1	EC No.: 200-659-6
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 2 H225	F-Highly Flammable
Acute Tox. 3 H331	T-Toxic R11-23/24/25-39/23/24/25
Acute Tox. 3 H311	
Acute Tox. 3 H301	
STOT SE 1 H370	
Hydrogen peroxide	< 20 %
CAS-No: 7722-84-1	EC No.: 231-765-0
Classification (EC 1272/2008)	Classification (67/548/EEC)
Ox. Liq. 1 H271	O-Oxidizing
Acute Tox. 4 H332	C-Corrosive
Acute Tox 4 H302	Xn-Harmful R5-8-35-20/22
Skin Corr. 1A H314	

The full test for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID AND MEASURES

General information

First aider: Pay attention to self protection! Move victim out of danger zone. Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure

4.1 Description of first aid measures

Inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

Ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Call a physician immediately.

Skin Contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call physician immediately.

Eye Contact

In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Drowsiness

Headache

Dizziness

Eye defects

Spasms

Nausea

Vomiting

Unconsciousness

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

No special measures are necessary.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

Water. Carbon dioxide (CO₂). Foam. Extinguishing powder. Water spray. In case of fire: Use foam for extinction.

Extinguishing media which must not be used for safety reasons

High-power water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Vapours may form explosive mixtures with air.

5.3 Advice for fire fighters

Special Fire Fighting Procedures

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation.

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Wear personal protection equipment.

6.2 Environmental Precautions

Do not allow uncontrolled discharge of product into the environment.

Explosion hazard.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Handle and open container with care.

Precautions for protection against fire and explosion

Keep away from sources of ignition. No smoking. Take measures against static discharge. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only

Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place.

Keep away from sources of ignition. No smoking.

Storage compatibility

Do not store together with: material, rich in oxygen, oxidizing. Keep only in the original container in a cool well-ventilated place.

Store tightly closed, in the original vessel at temperatures between 2 – 8 °C.

7.3 Specific end user(s)

This product is intended for professional use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Exposure limits (EH40)

Name	STD	TWA 8 Hrs		STEL – 15 min		Notes
Hydrogen peroxide		1 ppm	1.4 mg/m ³	2 ppm	2.8 mg/m ³	WEL
Methanol		200 ppm	266 mg/m ³	250 ppm	266 mg/m ³	WEL

WEL = Workplace Exposure Limits

8.2 Exposure controls

Protective equipment



Engineering measures

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Respiratory Equipment

Provide fresh air.

Hand Protection

Wear suitable gloves.

Eye Protection

Tightly sealed safety glasses

Other Protection

Wear suitable protective clothing.

Hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using, do not eat or drink.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Yellow-orange
Odour	Characteristic

9.2 Other information

Not determined

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Product has not been tested.

10.2 Chemical stability

If stored correctly, the product is stable at least until the expiry date printed on the label.

10.3 Possibility of hazardous reactions

Product has not been tested.

10.4 Conditions to avoid

Keep away from heat. Non-normal temperature conditions

10.5 Incompatible Materials

Product has not been tested.

10.6 Hazardous decomposition products

Product was not tested.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Toxic. Acute toxicity, oral. Acute toxicity, inhalant. Acute toxicity dermal. Danger of very serious irreversible effects.

Chemical Name				
Exposure routes	Method	Dose	Species	Source
Methanol				
oral	LD50	5628 mg/kg	Rat	
dermal	LD50	15800 mg/kg	Rabbit	
inhalative (4 h) vapour	LC50	85.3 mg/L	Rat	
inhalative aerosol	ATE	0.5 mg/L		
Hydrogen peroxide solution 30%				
oral	LD50	418-445 mg/kg	Rat	
dermal	LD50	3000 mg/kg	Rat	GESTIS
inhalative (4 h) vapour	ATE	11 mg/L		
inhalative aerosol	ATE	1.5 mg/L		

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

There are no data on the ecotoxicity of this product.

12.1 Toxicity

Chemical Name					
Aquatic toxicity	Method	Dose	h	Species	Source
Hydrogen peroxide solution 30%					
Acute fix toxicity	LC50	16.4 mg/L	96	Pimephales promelas	IUCLID
	ErC50	0.88 mg/L	72	Chlorella vulgaris	

12.2 Persistence and degradability

Degradability

No data available

12.3 Bioaccumulative potential

Bioaccumulative potential

No data available

12.4 Mobility in soil

Mobility

No data available

Surface Tension

No data available

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC)

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal should be in accordance with applicable national, state and local regulations. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

Dangerous for the environment

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No dangerous good in sense of these transport regulations

SECTION 15: REGULATORY INFORMATION

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

Environmental Listing

National regulatory information

Water contaminating class (D): 2-water contaminating

SECTION 16: OTHER INFORMATION

SDS No.	Version 01
Date	June 2015
Risk Phrases in Full	
R05	Heating may cause an explosion
R08	Contact with combustible material may cause fire.
R11	Highly Flammable
R20/22	Harmful by inhalation and if swallowed
R23/24/25	Toxic by inhalation, in contact with skin and swallowed
R35	Causes severe burns
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
Hazard Statements in Full	
H225	Highly flammable liquid and vapour
H271	May cause fire or explosion; strong oxidizer
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes skin irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H370	Causes damage to organs

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.