

SAFETY DATA SHEET
RNAscope® Green-B
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-B
Product No 320719

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 | Acute Tox. 3, Acute Tox. 3, Acute Tox 3 |
| Human health | Skin Corr. 1B Skin Sens. 1 H314, H317 |
| Environment | Aquatic Acute 1, Aquatic Chronic 1 |

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 Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H isothiazol-3-one [EC no. 220-239-6] (3:1)

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



Signal word

Warning

Hazard statements

H317

May cause allergic skin reaction

Precautionary Statements

P261

Avoid breathing dust/fume/gas/mist/vapours/spray
Contaminated work clothing should not be allowed out of the workplace.

P272

P280

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

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.

2.3 Other Hazards

No risks worthy of mention.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

| | | |
|--|----------------------|---------------------------------|
| Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | | < 20 % |
| CAS-No: 55965-84-9 | EC No.: 613-167-00-5 | |
| Classification (EC 1272/2008) | | Classification (67/548/EEC) |
| Acute Tox. 3 | H331 | T-Toxic R23/24/25-34-43-50-53 |
| Acute Tox. 3 | H311 | C-Corrosive |
| Acute Tox. 3 | H301 | N-Dangerous for the environment |
| Skin Corr. 1B | H314 | |
| Skin Sens. 1 | H317 | |
| Aquatic Acute 1 | H400 | |
| Aquatic Chronic 1 | H410 | |

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

SECTION 4: FIRST AID AND MEASURES

General information

Remove contaminated clothing immediately and dispose of safely. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!

4.1 Description of first aid measures

Inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Ingestion

Rinse mouth immediately and drink plenty of water.

Skin Contact

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

Eye Contact

Rinse immediately with plenty of water and seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

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

Extinguishing materials should be selected according to the surrounding area.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

The product itself does not burn.

5.3 Advice for fire fighters

Special Fire Fighting Procedures

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

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

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 to enter into surface water or drains.

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 waster 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

Avoid contact with skin, eyes and clothes. 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.

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 |
|----------------|-----|-----------------------|---------------|-------|
| Glycerol, mist | | 10 mg/mL ³ | | WEL |

WEL = Workplace Exposure Limits

8.2 Exposure controls

Protective equipment



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 | Colourless |
| Odour | Odourless |

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

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 |
| Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | | | | |
| oral | LD50 | 862 mg/kg | Rat | |
| dermal | LD50 | 2800 mg/kg | Rabbit | |
| inhalative (4 h) vapour | ATE | 3 mg/L | | |
| inhalative aerosol | ATE | 0.5 mg/L | | |

Additional information on tests

May cause sensitization by skin contact

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

No information available

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): 3-highly water contaminating

SECTION 16: OTHER INFORMATION

| | |
|---------------------------|---|
| SDS No. | Version 01 |
| Date | June 2015 |
| Risk Phrases in Full | |
| R23/24/25 | Toxic by inhalation, in contact with skin and swallowed |
| R34-43 | Causes skin irritation and sensitivity |
| R 50-53 | Very toxic to aquatic life with long lasting effects. |
| Hazard Statements in Full | |
| H331 | Toxic if inhaled |
| H317 | Toxic in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H311 | Toxic in contact with skin |
| H301 | Toxic if swallowed |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting affects |

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 us