

Safety Data Sheet

according to Regulation 1907/2006/EC (REACH)
and 453/2010/EU

BQ-512-01

Date of issue: 02.02.2016

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Product Name: ViroInspect® Reverse Transcription

Components: 4 x 60 µL Primer-Nucleotide-Mix
1 x 440 µL Reverse Transcription Buffer
1 x 34 µL Reverse Transcriptase
1 x 68 µL RNase Inhibitor

1.2 Relevant identified uses of the substance or mixture and uses advised against use of the substance/mixture

Identified uses: The ViroInspect® Reverse Transcription Kit is for laboratory use only, not for drug, household or other purposes. The product is intended for professional users only trained in molecular biology techniques.

1.3 Details of the supplier of the safety data sheet

Company: Greiner Bio-One GmbH
Address: Maybachstrasse 2
D-72636 Frickenhausen
Germany
Phone: +49 (0)7022 948-0
E-mail: alexander.ganser@gbo.com

1.4 Emergency telephone

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.
DE: Poison information center Mainz; tel. +49 (0) 6131 1924

SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Hazard identification	Hazard classes/categories
H315	Skin Irritation cat. 2
H319	Eye Irritation cat. 2

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2.2 Label elements

Labelling according to regulation 1272/2008/EC

Component	GHS pictograms	Hazard Identification
Primer-Nucleotide-Mix	<i>no declaration necessary</i>	-
Reverse Transcription Buffer and Reverse Transcriptase	<i>no declaration necessary</i>	-
RNase Inhibitor	 GHS07 WARNING	H315 H319 P305+P351+P338

2.3 Other hazards

No data available.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Description of the components

Component	Chemical substance	Concentration	Classification
RNase Inhibitor	<i>(R*,R*)-(+/-)-1,4-Dimercaptobutane-2,3-diol</i> C ₄ H ₁₀ O ₂ S ₂ CAS No.: 27565-41-9 EC N.: 248-531-9	10 - 20%	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H302, H315, H319, H335

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Consult a physician. Show this safety data sheet to the doctor in attendance. If breathed in, move person into fresh air. If not breathing, give artificial respiration.

After SKIN contact

Wash off with soap and plenty of water.

After EYE contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After ORAL intake

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Sulphur oxides.

5.3 Advice for firefighters/protective equipment

Wear self-contained breathing apparatus for fire-fighting if necessary.

5.4 Additional information

No data available

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning-up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

For precautions see section 2.2. and 16.1.

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7.2 Conditions for safe storage, including any incompatibilities

The original product package allows a safe storage at room temperature. Keep original product packages tightly closed during handling and storage.

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: ≤ -20 °C

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No data available.

8.2 Exposure controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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Body protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Property	Primer-Nucleotide-Mix	Reverse Transcription Buffer and Reverse Transcriptase	RNase Inhibitor
Appearance	liquid	liquid	liquid
Colour	No data available	No data available	No data available
Odour	No data available	No data available	No data available
Odour Threshold	No data available	No data available	No data available
pH	No data available	No data available	No data available
Specific gravity	No data available	No data available	No data available
Melting point/freezing point	No data available	No data available	No data available
Initial boiling point and boiling range	No data available	No data available	No data available
Flash point	No data available	No data available	No data available
Evaporation rate	No data available	No data available	No data available
Flammability (solid, gas)	No data available	No data available	No data available
Upper/lower flammability or explosive limits	No data available	No data available	No data available
Vapour pressure	No data available	No data available	No data available
Vapour density	No data available	No data available	No data available
Relative density	No data available	No data available	No data available
Partition coefficient: n octanol/water	No data available	No data available	No data available
Water solubility	No data available	No data available	No data available
Autoignition temperature	No data available	No data available	No data available
Decomposition temperature	No data available	No data available	No data available
Viscosity	No data available	No data available	No data available
Explosive properties	No data available	No data available	No data available
Oxidizing properties	No data available	No data available	No data available

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9.2 Other safety information

Not necessary

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong bases, bases, strong oxidizing agents, oxidizing agents, alkali metals, strong acids, reducing agents.

10.6 Hazardous decomposition products

Other decomposition products - no data available.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence (Glycerol)

Liver - Irregularities - Based on Human Evidence ((R*,R*)-(+/-)-1,4-Dimercaptobutane-2,3-diol)

Additional Information

RTECS: Not available

SECTION 12 ECOLOGICAL INFORMATION

Quantitative data on the ecotoxicity of the mixtures in this product are not available. The following information is only valid for pure chemical substances.

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

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12.6 Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not let product enter drains.

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available.

SECTION 15 REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation 1907/2006/EC.

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

No data available.

15.2 Chemical safety assessment

No data available.

SECTION 16 OTHER INFORMATION

16.1 List of H and P statements

List of relevant H statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

List of relevant P statements

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

16.2 Training advice

Regular safety training.

16.3 Recommended restrictions on use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potentially for professional users.

16.4 Further information

You find our current versions of the Safety Data Sheet in Internet: https://www.gbo.com/de_AT/know-how-services/download-center.html

Greiner Bio-One provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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