

Safety Data Sheet

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

BQ-511-01

Date of issue: 02.02.2016



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

1.1 Product identifier

Product Name: ViroInspect® Purification Kit

Components: 1 x 13 mL Elution Buffer NE

1 x 25 mL Wash Buffer NT3

1 x 40 mL Binding Buffer NTI

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

Identified uses: The ViroInspect® Purification 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
EUH031	Contact with acids liberates toxic gas.
H302	Acute Tox. 4 oral
H412	Hazardous to the aquatic environment - chronic cat. 3

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Component	GHS pictograms	Classification
NE	<i>no declaration necessary</i>	-
NT3	<i>no declaration necessary</i>	-


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NTI	 GHS07 WARNING	EUH031 not defined H302 Acute Tox. 4 oral H412 Hazardous to the aquatic environment - chronic cat. 3
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2.3 Other hazards

No data available.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Description of the components

Component	Chemical substance	Concentration	According CLP (GHS)
NTI	<i>Guanidinium thiocyanate</i> C ₂ H ₆ N ₄ S CAS No.: 593-84-0 EC N.: 209-812-1 RTECS: XL1225000 MFCD: 00013027 Indice No.: 615-004-00-3	30 - 60%	H302 H412 EUH031

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Place injured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

After SKIN contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.

After EYE contact

After contact with the eyes rinse thoroughly under running water for at least 15 minutes with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

After INHALATION of vapours

After inhalation of dust, foam or vapour fresh air should be inhaled. Keep airways free.

After ORAL intake

After oral intake lots of water should be drunk after it has been ingested.

4.2 Most important symptoms and effects, both acute and delayed

No additional recommendations.

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4.3 Indication of any immediate medical attention and special treatment needed

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. Inform patient respectively further measures and the possibility of long-term damages.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.2 Special hazards arising from the substance or mixture

Formation of hazardous and caustic vapour-air mixtures possible.

5.3 Advice for firefighters/protective equipment

No, for listed product. Product package burns like paper or plastic.

1.1 Additional information

None

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Do not breathe vapours. Regular staff training is necessary.

6.2 Environmental precautions

No data available.

6.3 Methods and materials for containment and cleaning-up

Bind any escaping liquid with inert absorbent. Collect small amounts of leaked liquid and flush with water into drains.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling in accordance with the test instruction that comes with the product.

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.

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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component	Chemical substance		
NTI	<i>Guanidinium thiocyanate</i> CAS No.: 593-84-0	Australia NICNAS Canada CEPA 1999 Japan CSCL/PRTR Japan PDSCL Japan ISHL South Korea TCCA TSCA Inventory NIOSH OSHA California Proposition 65 List	not listed DSL yes not listed not listed not listed not listed listed not listed not listed not listed

8.2 Exposure controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

Respiratory protection

Only if additional recommendations in test instruction or packing insert.

Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

Eye protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

Skin protection

Not necessary.

General hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Property	NE	NT3	NTI
Appearance	liquid	liquid	liquid
Colour	Colourless	Colourless	Slightly yellow
Odour	Odourless	Odourless	acetic
pH	8.0-9.0	7.0-8,0	4.5-5.5
Specific gravity	1.0 g/cm ³	1.00 g/cm ³	1.12 g/cm ³

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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

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

When indicated in packing insert.

10.5 Incompatible materials

Can form very reactive substances with oxidizing agents.

10.6 Hazardous decomposition products

In the original package all parts/all reagents are safely and separately stored. Decompositions are not observed during the expiration period under recommended conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Data on the toxicity of the mixtures in this product is not available. The following toxicological information is only valid for pure chemical substances.

Toxicological effects of pure chemical substance

Component	Chemical	LD/LC
NTI	<i>Guanidinium thiocyanate</i> (CAS No.: 593-84-0)	LD50 _{orl rat} : 593 mg/kg LC50 _{drm rbt} : 2000 mg/m ³ LC50 _{ihl rat} : 5.319 _{4h} mg/L LD50 _{ipr mus} : 300 mg/kg

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.

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12.1 Toxicity

Component	Chemical	Classification
NE	Chemicals/mixture < 1%	WGK (DE): 1
NT3	Chemicals/mixture < 1%	WGK (DE): 1
NTI	Guanidinium thiocyanate (CAS No.: 593-84-0)	WGK (DE): 3 Storage class (VCI): 12
	Indicator dye(s)	Storage class (VCI): 12-13

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

No data available

12.6 Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Do not collect in acidic waste. May form toxic gases.

Please follow local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

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

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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.

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

Announcement BekGS 220 (DE), Safety Data Sheet, June 2013

Harmful chemicals/mixtures with signal word: **WARNING** and highly flammable chemicals/mixtures must not be labelled with H and P statements **until 125 mL or 125 g**.

15.2 Chemical safety assessment

Not necessary for these small amounts

SECTION 16 OTHER INFORMATION

16.1 List of H statements

List of relevant H statements

H302 Harmful if swallowed.

H412 Harmful to aquatic life with long lasting effects.

EUH031 Contact with acids liberates toxic gas.

16.2 Training advice

Regular safety training.

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16.3 Recommended restrictions on use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential 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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