# **GE** Healthcare

# **SAFETY DATA SHEET**

New Zealand

Section 1. Identification

Product name Elution Buffer; part of 'QuickPrep™ Micro mRNA

**Purification Kit'** 

Catalogue Number 27-9255-01

Component Number 279255F

Other means of identification Not available.

Product type Liquid.

Identified uses

Analytical chemistry. Analytical reagent. Research and Development

<u>Supplier</u>

GE Healthcare UK Ltd GE Healthcare Bio-Sciences
Amersham Place 8 Tangihua Street

Buckinghamshire HP7 9NA

England

+44 0870 606 1921

Person who prepared the MSDS: Emergency telephone number (with hours of operation)

msdslifesciences@ge.com 0800 733 893 (10am - 7pm)

Section 2. Hazards identification

**HSNO Classification** Not classified.

This material is not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

**GHS label elements** 

Signal word No signal word.

**Hazard statements** No known significant effects or critical hazards.

**Precautionary statements** 

PreventionNot applicable.ResponseNot applicable.StorageNot applicable.DisposalNot applicable.

Other hazards which do not result in Not available.

classification

Section 3. Composition/information on ingredients

 Substance/mixture
 Mixture

 Other means of identification
 Not available.

CAS number/other identifiers

CAS number Not applicable.
EC number Mixture.
Product code 27-9255-01



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There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### Description of necessary first aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention

if symptoms occur.

**Ingestion** Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

**Skin contact** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical

attention if symptoms occur.

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for

and remove any contact lenses. Get medical attention if irritation occurs.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

InhalationNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.Eye contactNo known significant effects or critical hazards.

#### Over-exposure signs/symptoms

InhalationNo specific data.IngestionNo specific data.SkinNo specific data.EyesNo specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

**Specific treatments** Not available.

Notes to physician No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

## Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known.

Specific hazards arising from the

chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition

products

No specific data

Hazchem code Not available.

**Special precautions for fire-fighters** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

action shall be taken involving any personal risk or without suitable training.

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions**Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform

the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up



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Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Small spill Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste

disposal container. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, Large spill

basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact

information and section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands

and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment

before entering eating areas.

Conditions for safe storage, including any incompatibilities Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

None

Recommended monitoring

procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures

and/or the necessity to use respiratory protective equipment.

Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Environmental exposure controls** 

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures** 

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times

when handling chemical products if a risk assessment indicates this is necessary

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Personal protective equipment for the body should be selected based on the task being performed and Skin protection the risks involved and should be approved by a specialist before handling this product.

## Section 9. Physical and chemical properties

#### **Appearance**

Physical state Liquid. Color Colorless. **Odorless** Odor Odor threshold Not available.

7.4 [Conc. (% w/w): 100%] pН

Melting point Not available. Not available. **Boiling** point

[Product does not sustain combustion.] Flash point

**Burning rate** Not applicable.



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Burning time Not applicable.

Evaporation rate Not available.

Flammability (solid, gas)

Non-flammable in the presence of the following materials or conditions: open flames, sparks and static

discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible

materials, organic materials, metals, acids, alkalis and moisture.

Lower and upper explosive

(flammable) limits

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

**Solubility** Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

Not available.

Auto-ignition temperatureNot available.Decomposition temperatureNot available.SADTNot available.ViscosityNot available.

Aerosol product

Type of aerosol Not applicable.

Heat of combustion Not available.

Ignition distance Not applicable.

Enclosed space ignition - Time Not applicable.

equivalent

Enclosed space ignition - Deflagration density

Not applicable.

Flame height Not applicable.
Flame duration Not applicable.

# Section 10. Stability and reactivity

**Chemical stability** The product is stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

Incompatible materials No specific data.

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

## Information on the likely routes of exposure

InhalationNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.Eye contactNo known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

InhalationNo specific data.IngestionNo specific data.Skin contactNo specific data.Eye contactNo specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Acute toxicity

Not available.

#### Irritation/Corrosion



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Not available.

#### Sensitization

Not available.

## Potential chronic health effects

General No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Eye contact No known significant effects or critical hazards. Carcinogenicity Mutagenicity No known significant effects or critical hazards. No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects

Chronic toxicity

Not available.

## Carcinogenicity

Not available.

#### Mutagenicity

Not available.

## **Teratogenicity**

Not available.

#### Reproductive toxicity

Not available.

## Specific target organ toxicity

Not available.

## **Aspiration hazard**

Not available.

#### Numerical measures of toxicity

# Acute toxicity estimates

Not available.

# Section 12. Ecological information

**Ecotoxicity** No known significant effects or critical hazards.

#### Aquatic and terrestrial toxicity

Not available.

#### Persistence/degradability

Not available.

# Bioaccumulative potential

Not available.

#### Mobility in soil

Soil/water partition coefficient (Koc) Not available.

Other adverse effects No known significant effects or critical hazards.



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# Section 13. Disposal considerations

#### Disposal methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*
New Zealand Class	Not regulated.	-	-	-
ADG Class	Not regulated.	-	-	-
UN Class	Not regulated.	-	-	-
ADR/RID Class	Not regulated.	-	-	-
IATA Class	Not regulated.	-	-	-

-

IMDG Class	Not regulated.	-	-	-
PG* : Packing group				

# Section 15. Regulatory information

New Zealand Inventory of Chemicals All components are listed or exempted.

(NZIoC)

HSNO Approval Number HSR002596

**HSNO Group Standard** Laboratory Chemicals and Reagent Kits

**HSNO Classification** Not classified.

Australia inventory (AICS)

All components are listed or exempted.

Safety, health and environmental regulations specific for the product

No known specific national and/or regional regulations applicable to this product (including its

ingredients).

## Section 16. Other information

#### **History**

Date of printing3 November 2011Date of issue/ Date of revision03 November 2011

Date of previous issue 9/9/2011. Version 1

**Key to abbreviations** ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland

Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

 ${\it GHS} = {\it Globally Harmonized System of Classification and Labelling of Chemicals}$ 

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

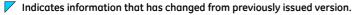
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by

the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

**References** Not available.



#### Notice to reader



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To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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