

Safety Data Sheet

genesigPLEX Kit SDS

Date of Issue 05th Jun 2024

Product Components:

1. Primer/Probe Mix
2. Positive Control Template
3. RNA/DNA Internal Extraction Control
4. Lyophilised OneStep Master Mix/Lyophilised Standard Master Mix
5. Master Mix resuspension buffer
6. Kit Resuspension Buffer
7. Reaction Water

ISSUED TO MEET THE REQUIREMENTS OF REGULATION (EC)
1907/2006: ARTICLE 31

SECTION 1: Identification of the substance and of the company/undertaking

Component Identifier: 1. Primer/probe mix		Name: Lyophilised primer/probe mix	
Product Use: Real-time PCR Test			
Manufacturer's Name: Primerdesign Limited			
Manufacturer's Address: York House, School Lane, Chandlers Ford, United Kingdom			
Postal Code: S053 4DG	Emergency Telephone: +44 (0) 800 0156 494	Fax: +44 (0) 8708 362 155	
Hours of Operation: 09:00-17:30 UK time		Email: support@primerdesign.co.uk	

SECTION 2: Hazards Identification

2.1 Classifications

Classification of the substance or mixture: Not a hazardous substance or mixture.

Classification according to Regulation (EC) No 1272/2008: Not a hazardous substance or mixture.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not a hazardous substance or mixture.

Information concerning particular hazards for human and environment: None

Other hazards that do not result in classification: None

2.2 Labelling

Labelling according to Regulation (EC) No 1272/2008: No

SECTION 3: Composition/Information on Ingredients

Components	CAS Number/EC Number	Weight
Synthetic Oligonucleotide	-	100 %

SECTION 4: First aid measures

EYE CONTACT: Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.

INGESTION: Get medical attention.

INHALATION: Remove from exposure area to fresh air immediately. Get medical attention immediately.

Equipment to be available at the workplace for specific and immediate treatment: Eye-washing and skin washing facilities.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Dry chemical, foam, carbon dioxide or water. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.

5.2 Special hazards arising from the substance or mixture

None known to exist

5.3. Advice for firefighters

No special advice

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

None

6.2. Environmental precautions:

None

6.3. Methods and material for containment and cleaning up:

Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.

SECTION 7: Handling and storage

7.1. Handling

Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed.

7.2. Storage

Store at -20°C . Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

SECTION 8: Exposure controls/personal protection

8.1. Exposure Limit Values

None

8.2. Exposure Controls

8.2.1. Occupational

Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

EYE PROTECTION: Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.

CLOTHING: Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.

GLOVES: Employee must wear appropriate protective gloves to prevent contact with this material.

SECTION 9: Physical and Chemical Properties

Appearance: Solid
pH: Not known
Odour: Odourless
Solubility: Not known
Density: Not known
Boiling point: Not known
Melting point: Not known

SECTION 10: Stability and Reactivity

- 10.1. Stability: Stable under recommended storage conditions.
- 10.2. Materials/Conditions to avoid: No data available
- 10.3. Incompatible Materials: No data available
- 10.4. Hazardous decomposition products: None

SECTION 11: Toxicological Information

- 11.1. Acute toxicity:
No data available
- 11.2. Sensitisation —skin:
No data available
- 11.3 Serious eye damage/irritation: no data available

SECTION 12: Ecological Information:

- Toxicity: No data available
- Persistence and degradability: No data available
- Bio accumulative potential: No data available
- Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

SECTION 13: Disposal Considerations

Dispose of according to any local, national or regional regulations.

Product: Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging: Dispose of as unused product

SECTION 14: Transport Information

UN Number: Not applicable

Proper shipping name: Not applicable

Class: Not applicable

Packing Group: Not applicable

SECTION 15: Regulatory information

Health, safety or environmental information is not required on the label (according to Regulation (EC) No 1272/2008)

SECTION 16: Other Information

16.1 Recommended restrictions on use: None

16.2. Sources of information used to compile this sheet Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the

registration, evaluation, authorisation and restriction of chemicals (REACH): Article 31: Requirements for safety data sheets, and Annex II: Guide to the compilation of safety data sheets, OJL, 136, 29.5.2007, pp 35-36 and pp 84-89.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, and amending Directive 67/548/EEC and Regulation (EC) No 1907/2006 (in short CLP).

Commission Decision 2000/532/EC establishing a list of wastes pursuant to Article 1 (a) of Directive 75/442/EEC on Waste and Article 1 (4) of Directive 91/689/EEC on Hazardous Waste. CONSLEG: 2000D0532-01/01/2002, Office for Official Publications of the European Communities.

Approved Supply List (8th edition), Information provided for the classification and labelling of substances and preparations for supply, United Kingdom Health and Safety Commission, 2005 (based on Annex I of 67/548/EEC).

Directive 98/79/EC of the European Parliament and of the Council on in vitro diagnostic medical devices, Annex II Essential Requirements, OJ L, 331, 7.12.98, p 20.

List of approved workplace exposure limits, Table 1 of EH40/2005, United Kingdom Health and Safety Commission, 2ND edition published 2011, implementing the European Commission's Indicative Occupational Exposure Limit Values Directive 2009/161/EU.

16.3. Changes from previous version Fist Version

The above information is based on data available and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it shall make their own determinations of the effects, properties and protections which pertain to their particular conditions.

No representation, warranty or guarantee, expressed or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the material, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material.

ISSUED TO MEET THE REQUIREMENTS OF REGULATION (EC)
1907/2006: ARTICLE 31

SECTION 1: Identification of the substance and of the company/undertaking

Component Identifier: 2. Positive Control Template		Name: Lyophilised positive control templates	
Product Use: Real-time PCR Test			
Manufacturer's Name: Primerdesign Limited			
Manufacturer's Address: York House, School Lane, Chandlers Ford, United Kingdom			
Postal Code: S053 4DG	Emergency Telephone: +44 (0) 800 0156 494	Fax: +44 (0) 8708 362 155	
Hours of Operation: 09:00-17:30 UK time		Email: support@primerdesign.co.uk	

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Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not a hazardous substance or

mixture. Information concerning particular hazards for human and environment: None

Other hazards that do not result in classification: None

2.2 Labelling

Labelling according to Regulation (EC) No 1272/2008: None

SECTION 3: Composition/Information on Ingredients

Components	CAS Number/EC Number	Weight
Synthetic Oligonucleotide	-	100 %

SECTION 4: First aid measures

EYE CONTACT: Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.

INGESTION: Get medical attention,

INHALATION: Remove from exposure area to fresh air immediately. Get medical attention immediately.

Equipment to be available at the workplace for specific and immediate treatment: Eye-washing and skin washing facilities.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Dry chemical, foam, carbon dioxide or water. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.

5.2 Special hazards arising from the substance or mixture

None known to exist

5.3. Advice for firefighters

No special advice

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

None

6.2. Environmental precautions:

None

6.3. Methods and material for containment and cleaning up:

Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.

SECTION 7: Handling and storage

7.1. Handling

Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed.

7.2. Storage

Store at -20°C . Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

SECTION 8: Exposure controls/personal Protection

8.1. Exposure Limit Values

None

8.2. Exposure Controls

8.2.1. Occupational

Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

EYE PROTECTION: Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.

CLOTHING: Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.

GLOVES: Employee must wear appropriate protective gloves to prevent contact with this material.

SECTION 9: Physical and Chemical Properties

Appearance: Solid

pH: Not known

Odour: Odourless

Solubility: Not known

Density: Not known

Boiling point: Not known

Melting point: Not known

SECTION 10: Stability and Reactivity

10.1. Stability:

Stable under recommended storage conditions.

10.2. Materials/Conditions to avoid:

No data available

10.3. Incompatible Materials:

No data available

10.4. Hazardous decomposition products:

None

SECTION 11: Toxicological Information

11.1. Acute toxicity:

No data available

11.2. Sensitisation —skin:

No data available

11.3. Serious eye damage/irritation: No data available

SECTION 12: Ecological Information:

Toxicity: No data available

Persistence and degradability: No data available

Bio accumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

SECTION 13: Disposal Considerations

Dispose of according to any local, national or regional regulations.

Product: Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging: Dispose of as unused product

SECTION 14: Transport Information

UN Number: Not applicable

Proper shipping name: Not applicable

Class: Not applicable

Packing Group: Not applicable

SECTION 15: Regulatory Information

Health, safety or environmental information is not required on the label (according to Regulation (EC) No 1272/2008)

SECTION 16: Other Information

16.1. Recommended restrictions on use: None

16.2. Sources of information used to compile this sheet Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the registration evaluation, authorisation and restriction of chemicals (REACH): Article 31: Requirements for safety data sheets, and Annex II: Guide to the compilation of safety data sheets, OJL1 136, 29.5.2007, pp 35-36 and pp 84-89.

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16.3. Changes from previous version

Fist Version

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ISSUED TO MEET THE REQUIREMENTS OF REGULATION (EC) 1907/2006:
ARTICLE 31

SECTION 1: Identification of the substance and of the company/undertaking

Component Identifier: 3. RNA/DNA internal extraction control template		Name: Lyophilised internal control template	
Product Use: Real-time PCR Test			
Manufacturer's Name: Primerdesign Limited			
Manufacturer's Address: York House, School Lane, Chandlers Ford, United Kingdom			
Postal Code: S053 4DG	Emergency Telephone: +44 (0) 800 0156 494	Fax: +44 (0) 8708 362 155	
Hours of Operation: 09:00-17:30 UK time		Email: support@primerdesign.co.uk	

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Information concerning particular hazards for human and environment: None

Other hazards that do not result in classification: None

2.2 Labelling

Labelling according to Regulation (EC) No 1272/2008: None

SECTION 3: Composition/Information on Ingredients

Components	CAS Number/EC Number	Weight
Synthetic Oligonucleotide	-	100 %

SECTION 4: First aid measures

EYE CONTACT: Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.

INGESTION: Get medical attention.

INHALATION: Remove from exposure area to fresh air immediately. Get medical attention immediately.

Equipment to be available at the workplace for specific and immediate treatment: Eye-washing and skin-washing facilities.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Dry chemical, foam, carbon dioxide or water. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.

5.2 Special hazards arising from the substance or mixture

None known to exist

5.3. Advice for firefighters

No special advice

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

None

6.2. Environmental precautions:

None

6.3. Methods and material for containment and cleaning up:

Absorb with liquid binding material.

Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.

SECTION 7: Handling and storage

7.1. Handling

Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed.

7.2. Storage

Store at -20°C . Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

SECTION 8: Exposure controls/personal protection

8.1. Exposure Limit Values

None

8.2. Exposure Controls

8.211. Occupational

Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

EYE PROTECTION: Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.

CLOTHING: Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.

GLOVES: Employee must wear appropriate protective gloves to prevent contact with this material.

SECTION 9: Physical and Chemical Properties

Appearance: Solid

pH: Not known

Odour: Odourless

Solubility: Not known

Density: Not known

Boiling Point: Not known

Melting point: Not known

SECTION 10: Stability and Reactivity

10.1. Stability:

Stable under recommended storage conditions.

10.2. Materials/Conditions to avoid:

No data available

10.3. Incompatible Materials:

No data available

10.4. Hazardous decomposition products:

None

SECTION 11: Toxicological Information

11.1. Acute toxicity:

No data available

11.2. Sensitisation —skin:

No data available

11.3 Serious eye damage/irritation: No data available

SECTION 12: Ecological Information:

Toxicity: Not harmful for the aquatic environment

Persistence and degradability: No data available

Bio accumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

SECTION 13: Disposal Considerations

Dispose of according to any local, national or regional regulations.

Product: Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging: Dispose of as unused product

SECTION 14: Transport Information

UN Number: Not applicable

Proper shipping name: Not applicable

Class: Not applicable

Packing Group: Not applicable

SECTION 15: Regulatory Information

Health, safety or environmental information is not required on the label (according to Regulation (EC) No 1272/2008)

SECTION 16: Other Information

16.1. Recommended restrictions on use: None

16.2. Sources of information used to compile this sheet Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorisation and restriction of chemicals (REACH): Article 31: Requirements for safety data sheets, and Annex II: Guide to the compilation of safety data sheets, OJL, 1 36, 29.52007, pp 35-36 and pp 84-89.

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16.3. Changes from previous version

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ISSUED TO MEET THE REQUIREMENTS OF REGULATION (EC) 1907/2006: ARTICLE 31

SECTION 1: Identification of the substance and of the Company/undertaking

Component Identifier: 4. Lyophilised OneStep/Standard Master Mix		Name: Lyophilised Master Mix	
Product Use: Real-time PCR test			
Manufacturer's Name: Primerdesign Limited			
Manufacturer's Address: York House, School Lane, Chandlers Ford, United Kingdom			
Postal Code: S053 4DG	Emergency Telephone: +44 (0) 800 0156 494		Fax: +44 (0) 8708 362 155
Hours of Operation: 09:00-17:30 UK time		Email: support@primerdesign.co.uk	

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2.1 Classifications

Classification of the substance or mixture: Not a hazardous substance or mixture.

Classification according to Regulation (EC) No 1272/2008: Not a hazardous substance or mixture.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not a hazardous substance or mixture.

Information concerning particular hazards for human and environment: None

Other hazards that do not result in classification: None

2.2 Labelling

Labelling according to Regulation (EC) No 1272/2008: None

SECTION 3: Composition/Information on Ingredients

Components	CAS Number/EC Number	Weight
Glycerol	56-81-5/200-289-5	
Sucrose	57-50-11200-334-9	
Mannitol	69-65-8/200-711-8	
Recombinant human serum albumin	70024-90-7/274-272-6	<5%

SECTION 4: First aid measures

EYE CONTACT: Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.

INGESTION: Get medical attention.

INHALATION: Remove from exposure area to fresh air immediately. Get medical attention immediately.

Equipment to be available at the workplace for specific and immediate treatment: Eye-washing and skin-washing facilities.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Dry chemical, foam, carbon dioxide or water. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.

5.2 Special hazards arising from the substance or mixture

None known to exist

5.3. Advice for firefighters

No special advice

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

None

6.2. Environmental precautions:

None

6.3. Methods and material for containment and cleaning up:

Absorb with liquid binding material.

Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.

SECTION 7: Handling and storage

7.1. Handling

Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed.

7.2. Storage

Store at -20°C. Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

SECTION 8: Exposure controls/personal Protection

8.1. Exposure Limit Values

56-81-5 - glycerol

WEL Long-term value: 10 mg/m³

8.2. Exposure Controls

8.11. Occupational

Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

EYE PROTECTION: Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.

CLOTHING: Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.

GLOVES: Employee must wear appropriate protective gloves to prevent contact with this material.

SECTION 9: Physical and chemical properties

Appearance: Solid pH: 8.5

Odour: Odourless

Solubility: Not known

Density: Not known

Boiling Point: Not known Melting Point: Not known

SECTION 10: Stability and Reactivity

10.1. Stability:

Stable under recommended storage conditions.

10.2. Materials/Conditions to avoid:

No data available

10.3. Incompatible Materials:

No data available

10.4. Hazardous decomposition products:

None

SECTION 11: Toxicological Information

11.1. LL Acute toxicity:

No data available

11.2. Sensitisation —skin:

No data available

11.3 Serious eye damage/irritation: No data available

SECTION 12: Ecological Information:

Toxicity: Not harmful for the aquatic environment

Persistence and degradability: No data available

Bio accumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted Other adverse effects: No data available

SECTION 13: Disposal Considerations

Dispose of according to any local, national or regional regulations.

Product: Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging: Dispose of as unused product

SECTION 14: Transport Information

UN Number: Not applicable

Proper shipping name: Not applicable

Class: Not applicable

Packing Group: Not applicable

SECTION 15: Regulatory Information

Health, safety or environmental information is not required on the label (according to Regulation (EC) No 1272/2008)

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16.1. Recommended restrictions on use: None

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ISSUED TO MEET THE REQUIREMENTS OF REGULATION (EC) 1907/2006: ARTICLE 31

SECTION 1: Identification of the substance and of the Company/undertaking

Product Identifier: 5. Master Mix Resuspension Buffer		Name: Master Mix Resuspension Buffer	
Product Use: Real-time PCR test			
Manufacturer's Name: Primerdesign Limited			
Manufacturer's Address: York House, School Lane, Chandlers Ford, United Kingdom			
Postal Code: S053 4DG	Emergency Telephone: +44 (0) 800 0156 494	Fax: +44 (0) 8708 362 155	
Hours of Operation: 09:00-17:30 UK time		Email: support@primerdesign.co.uk	

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2.1 Classifications

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Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not a hazardous substance or mixture.

Information concerning particular hazards for human and environment: None

Other hazards that do not result in classification: None

2.2. Labelling

Labelling according to Regulation (EC) No 1272/2008: None

SECTION 3: Composition/Information on Ingredients

Components	CAS Number/EC Number	Weight
(NH ₄) ₂ SO ₄	7783-20-2/231-984-1	10 %
KCL	7447-40-7/231-211-8	< 1 %
EGTA	67-42-5/200-651-2	
Glycerol	56-81-5/200-289-5	5%

SECTION 4: First aid measures

EYE CONTACT: Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.

INGESTION: Get medical attention.

INHALATION: Remove from exposure area to fresh air immediately. Get medical attention immediately.

Equipment to be available at the workplace for specific and immediate treatment: Eye-washing and skin-washing facilities.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Dry chemical, foam, carbon dioxide or water. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.

5.2 Special hazards arising from the substance or mixture

None known to exist

5.3. Advice for firefighters No special advice

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

None

6.2 Environmental precautions:

None

6.3. Methods and material for containment and cleaning up:

Absorb with liquid binding material.

Wear appropriate protective clothing and chemically compatible gloves, Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.

SECTION 7: Handling and storage

7.1. Handling

Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed.

7.2. Storage

Store at -20⁰ C. Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

SECTION 8: Exposure controls/personal Protection

8.1. Exposure Limit Values

56-81-5 - glycerol

WEL Long-term value: 10 mg/m³

8.2. Exposure Controls

8.2.1. Occupational

Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

EYE PROTECTION: Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.

CLOTHING: Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.

GLOVES: Employee must wear appropriate protective gloves to prevent contact with this material.

SECTION 9: Physical and chemical properties

Appearance: Liquid

pH: 8.5

Odour: Odourless

Density: Not known

Boiling Point: Not Known

Melting Point: Not Known

SECTION 10: Stability and Reactivity

10.1. Stability:

Stable under recommended storage conditions.

10.2. Materials/Conditions to avoid:

No data available

10.3. Incompatible Materials: No data available

10.4. Hazardous decomposition products: None

SECTION 11: Toxicological Information

11.1. Acute toxicity:

No data available

11.2. Sensitisation —skin:

No data available

11.3 Serious eye damage/irritation: No data available

SECTION 12: Ecological Information:

Toxicity: Not harmful for the aquatic environment

Persistence and degradability: No data available

Bio accumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

SECTION 13: Disposal Considerations

Dispose of according to any local, national or regional regulations.

Product: Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging: Dispose of as unused product

SECTION 14: Transport Information

UN Number: Not applicable

Proper shipping name: Not applicable

Class: Not applicable

Packing Group: Not applicable

SECTION 15: Regulatory Information

Health, safety or environmental information is not required on the label (according to Regulation (EC) No 1272/2008)

SECTION 16: Other Information

16.1. Recommended restrictions on use: None

16.2. Sources of information used to compile this sheet

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorisation and restriction of chemicals (REACH): Article 31: Requirements for safety data sheets, and Annex II: Guide to the compilation of safety data sheets, OJL, 1 361 29.52007, pp 35-36 and pp 84-89.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, and amending Directive 67/548/EEC and Regulation (EC) No 1907/2006 (in short CLP).

Commission Decision 2000/532/EC establishing a list of wastes pursuant to Article 1 (a) of Directive 75/442/EEC on Waste and Article 1 (4) of Directive 91/689/EEC on Hazardous Waste. CONSLEG: 2000D0532-01/01/2002, Office for Official Publications of the European Communities.

Approved Supply List (8th edition), Information provided for the classification and labelling of substances and preparations for supply, United Kingdom Health and Safety Commission, 2005 (based on Annex I of 67/548/EEC).

Directive 98/79/EC of the European Parliament and of the Council on in vitro diagnostic medical devices, Annex I, Essential Requirements, OJ L, 331, 7.12.98, p 20.

List of approved workplace exposure limits, Table 1 of EH40/2005, United Kingdom Health and Safety Commission, 2ND edition published 201 1, implementing the European Commission's Indicative Occupational Exposure Limit Values Directive 2009/161/EU.

16.3. Changes from previous version .

Fist Version

The above information is based on data available and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it shall make their own determinations of the effects, properties and protections which pertain to their particular conditions.

No representation, warranty or guarantee, expressed or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the material, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material.

ISSUED TO MEET THE REQUIREMENTS OF REGULATION (EC)
1907/2006: ARTICLE 31

SECTION 1: Identification of the substance and of the Company/undertaking

Component Identifier: 6. Resuspension Buffer		Name: Kit Resuspension Buffer	
Product Use: Real-time PCR test			
Manufacturer's Name: Primerdesign Limited			
Manufacturer's Address: York House, School Lane, Chandlers Ford, United Kingdom			
Postal Code: S053 4DG	Emergency Telephone: +44 (0) 800 0156 494	Fax: +44 (0) 8708 362 155	
Hours of Operation: 09:00-17:30 UK time		Email: support@primerdesign.co.uk	

SECTION 2: Hazards Identification

2.1 Classifications

Classification of the substance or mixture: Not a hazardous substance or mixture.

Classification according to Regulation (EC) No 1272/2008: Not a hazardous substance or mixture.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not a hazardous substance or mixture.

Information concerning particular hazards for human and environment: None

Other hazards that do not result in classification: None

2.2 Labelling

Labelling according to Regulation (EC) No 1272/2008: None

SECTION 3: Composition/Information on Ingredients

Components	CAS Number/EC Number	Weight
EGTA	67-42-5/200-651-2	< 1%
Glycerol	56-81-5/200-289-5	10%

SECTION 4: First aid measures

EYE CONTACT: Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water, Observe for signs of irritation. If irritation is present, get medical attention.

INGESTION: Get medical attention.

INHALATION: Remove from exposure area to fresh air immediately. Get medical attention immediately.

Equipment to be available at the workplace for specific and immediate treatment: Eye-washing and skin-washing facilities.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Dry chemical, foam, carbon dioxide or water. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.

5.2 Special hazards arising from the substance or mixture

None known to exist

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.

6.2, Environmental precautions:

None

6.3. Methods and material for containment and cleaning up:

Soak with inert absorbent material.

Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal.

SECTION 7: Handling and storage

7.1. Handling

Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed.

7.2. Storage

Store at -20 °C. Keep in properly labelled containers.

SECTION 8: Exposure controls/personal Protection

8.1. Exposure Limit Values

None

8.2. Exposure Controls

8.2.1. Occupational

Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

EYE PROTECTION: Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.

CLOTHING: Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.

GLOVES: Employee must wear appropriate protective gloves to prevent contact with this material.

SECTION 9: Physical and chemical properties

Appearance: Liquid

pH: Not known

Odour: Odourless

Solubility: Not known

Density: Not known

Boiling Point: Not Known

Melting Point: Not Known

SECTION 10: Stability and Reactivity

10.1. Stability:

Stable under recommended storage conditions.

10.2. Materials/Conditions to avoid:

No data available

10.3. Incompatible Materials:

No data available

10.4. Hazardous decomposition products:

None

SECTION 11: Toxicological Information

11.1. Acute toxicity:

No data available

11.2. Sensitisation —skin:

No data available

11.3 Serious eye damage/irritation:

No data available

SECTION 12: Ecological Information:

Toxicity: Not harmful for the aquatic environment

Persistence and degradability: No data available

Bio accumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

SECTION 13: Disposal Considerations

Dispose of according to any local, national or regional regulations.

Product: Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging: Dispose of as unused product

SECTION 14: Transport Information

UN Number: Not applicable

Proper shipping name: Not applicable

Class: Not applicable

Packing Group: Not applicable

SECTION 15: Regulatory Information

Health, safety or environmental information is not required on the label (according to Regulation (EC) No 1272/2008)

SECTION 16: Other Information

16.1. Recommended restrictions on use:

None

16.2. Sources of information used to compile this sheet

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorisation and restriction of chemicals (REACH): Article 31: Requirements for safety data sheets, and Annex II: Guide to the compilation of safety data sheets, OJL, 136, 29.5.2007, pp 35-36 and pp 84-89.

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Commission Decision 2000/532/EC establishing a list of wastes pursuant to Article 1 (a) of Directive 75/442/EEC on Waste and Article 1 (4) of Directive 91/689/EEC on Hazardous Waste. CONSLEG: 2000D0532-01/01/2002, Office for Official Publications of the European Communities.

Approved Supply List (8th edition), Information provided for the classification and labelling of substances and preparations for supply, United Kingdom Health and Safety Commission, 2005 (based on Annex I of 67/548/EEC).

Directive 98/79/EC of the European Parliament and of the Council on in vitro diagnostic medical devices, Annex I, Essential Requirements, OJ L, 331, 7.12.98, p 20.

List of approved workplace exposure limits, Table 1 of EH40/2005, United Kingdom Health and Safety Commission, 2ND edition published 2011, implementing the European Commission's Indicative Occupational Exposure Limit Values Directive 2009/161 /EU.

16.3. Changes from previous version Fist Version

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No representation, warranty or guarantee, expressed or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the material, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material.

ISSUED TO MEET THE REQUIREMENTS OF REGULATION (EC) 1907/2006: Article 31

SECTION 1: Identification of the substance and of the Company/undertaking

Component Identifier: 7. Reaction Water		Name: RNase/DNase free water	
Product Use: Real-time PCR test			
Manufacturer's Name: Primerdesign Limited			
Manufacturer's Address: York House, School Lane, Chandlers Ford, United Kingdom			
Postal Code: S053 4DG	Emergency Telephone: +44 (0) 800 0156 494	Fax: +44 (0) 8708 362 155	
Hours of Operation: 09:00 – 17:30 UK time		Email: support@primerdesign.co.uk	

SECTION 2: Hazards Identification

2.1 Classifications

Classification of the substance or mixture: Not a hazardous substance or mixture.

Classification according to Regulation (EC) No 1272/2008: Not a hazardous substance or mixture.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not a hazardous substance or mixture.

Information concerning particular hazards for human and environment: None

Other hazards that do not result in classification: None

2.2 Labelling

Labelling according to Regulation (EC) No 1272/2008: None

SECTION 3: Composition/Information on Ingredients

Components	CAS Number/EC Number	Weight
RNase/DNase free water	7732-18-5/231-791-2	100%

SECTION 4: First aid measures

EYE CONTACT: No hazards which require special first aid measures

SKIN CONTACT: No hazards which require special first aid measures

INGESTION: No hazards which require special first aid measures

INHALATION: No hazards which require special first aid measures

Equipment to be available at the workplace for specific and immediate treatment: Eye-washing and skin-washing facilities.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Substance is non-flammable; use agent most appropriate to extinguish surrounding fire.

5.2 Special hazards arising from the substance or mixture

None known to exist

5.3. Advice for firefighters No

special advice

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

If spilled, take caution, as material can cause surfaces to become very slippery.

6.2. Environmental precautions:

None

6.3. Methods and material for containment and cleaning up:
Soak up with inert absorbent material

SECTION 7: Handling and storage

7.1. Handling

No special handling advice required

7.2. Storage

No special storage conditions required

SECTION 8: Exposure controls/personal Protection

8.1. Exposure Limit Values

None

8.2. Exposure Controls

8.2.1. Occupational

EYE PROTECTION: No special protective equipment required

HAND PROTECTION: No special protective equipment required

SKIN & BODY PROTECTION: No special protective equipment required

GLOVES: Employee must wear appropriate protective gloves

SECTION 9: Physical and chemical properties

Appearance: Clear Liquid

pH: 7.0

Molecular weight: 18.051

Odour: Odourless

Density: 1.0 g/cm at 20⁰ C

% Volatiles by volume: 0.0

Boiling Point: 100.0 ⁰ C

Melting Point: 0.0 ⁰ C

Vapour Pressure: 23 hPa at 20⁰C

SECTION 10: Stability and Reactivity

10.1. Stability:

Stable under recommended storage conditions.

10.2. Materials/Conditions to avoid:

Incompatible products. Excess heat

10.3. Incompatible Materials:

No data available

10.4. Hazardous decomposition products:

None

SECTION 11: Toxicological Information

11.1. Acute toxicity:

No data available

11.2. Sensitisation —skin:

No data available

11.3. Serious Eye damage/irritation: No data available

SECTION 12: Ecological Information:

Toxicity: No data available

Persistence and degradability: No data available

Bio accumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

SECTION 13: Disposal Considerations

Dispose of according to any local, national or regional regulations.

Product: Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging: Dispose of as unused product

SECTION 14: Transport Information

UN Number: Not applicable

Proper shipping name: Not applicable

Class: Not applicable

Packing Group: Not applicable

SECTION 15: Regulatory Information

Health, safety or environmental information is not required on the label (according to Regulation (EC) No 1272/2008)

SECTION 16: Other Information

16.1. Recommended restrictions on use:

None

16.2. Sources of information used to compile this sheet

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorisation and restriction of chemicals (REACH): Article 31: Requirements for safety data sheets, and Annex II: Guide to the compilation of safety data sheets, OJL, 1 36, 29.5.2007, pp 35-36 and pp 84-89.

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