

Version	Revision Date:	Date of last issue: 11.04.2023
4.0	29.08.2023	Date of first issue: 11.07.2022

### Safety Data Sheet (SDS) cover letter for product:

### sparQ mRNA-Seq Kit, 96R

Catalog number:	95218-096
Document ID:	80000010708
Country / Language:	AU / EN

This product contains one or more components with related SDS, listed below. You can find the SDS for each component on the following pages.

Components with SDS:

- RNase Inhibitor Version: 6.0
- HiFi Plus Master Mix (2x) Version: 8.0
- Primer Mix Version: 5.3
- T4 DNA Ligase Version: 8.2
- Rapid Ligation Buffer (5x) Version: 5.4
- 1st Strand Enzyme Mix Version: 5.0
- 2nd Strand Buffer Version: 5.0
- 2nd Strand Enzyme Mix Version: 5.0
- UDI Dilution Buffer Version: 6.0
- Oligo-DT Beads Version: 2.2
- Binding Buffer Version: 2.3
- Suspension Buffer Version: 2.2
- Wash Buffer Version: 2.3
- mRNA Frag Prime Buffer Version: 3.2
- Bead Booster Version: 1.0

Kind regards, Your Quantabio Team

Email compliance@quantabio.com | Website www.quantabio.com



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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	RNase Inhibitor
Manufacturer or supplier's de	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994

### Recommended use of the chemical and restrictions on use

Recommended use		Laboratory chemicals	
	•	Eaboratory ononnoulo	

### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Not a hazardous substance or mixture.

### **GHS** label elements

Not a hazardous substance or mixture.

### Other hazards which do not result in classification

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Substance name	-	Substance RNase Inhibitor
CAS-No.	:	Not Assigned

### Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 50 -< 70

### **SECTION 4. FIRST AID MEASURES**

General advice	: Show this safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	: Wash off immediately with soap and plenty of water while



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In case of eye contact	If symptoms persist, of Remove contact lense Protect unharmed eye	es. e. I plenty of water for at least 15 minutes
If swallowed	: If accidentally swallow Rinse mouth with wat	ved obtain immediate medical attention.
Most important symptoms and effects, both acute and delayed	: No information availa	
Notes to physician	: No information availa	ble.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Recommended storage temperature	:	-20 °C
Further information on storage stability	:	No decomposition if stored and applied as directed.
-		No decomposition if stored and applied as directed.



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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glycerol	56-81-5	TWA (Mist)	10 mg/m3	AU OEL

### Personal protective equipment

Hand protection

Remarks Eye protection Skin and body protection	<ul> <li>The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).</li> <li>Safety glasses</li> <li>Choose body protection according to the amount and concentration of the dangerous substance at the work place.</li> </ul>
	Footwear protecting against chemicals

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	colourless
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	7.6
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	0.1 hPa
Relative vapour density	:	No data available
Relative density	:	No data available



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Density	: No data available	
Solubility(ies) Water solubility	: No data available	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: not determined	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: Not applicable	
Oxidizing properties	: No data available	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>
Hazardous decomposition products	: No data available

### SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Acute oral toxicity

Not classified based on available information.

Product:		
Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available
Components:		
glycerol:		

: LD50 Oral (Rat): 12,000 mg/kg



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Acute dermal toxicity	: LD50 Dermal (Rabb	it): 10,000 mg/kg
Skin corrosion/irritation Not classified based on ava	ilable information.	
Product:		
Remarks	: May cause skin irrita	ation in susceptible persons.
Components:		
glycerol:		
Species	: Rabbit	
Exposure time	: 24 h	
Result	: Mild skin irritation	
Serious eye damage/eye i		
Not classified based on ava	ilable information.	
Product:		
Remarks	: May irritate eyes.	
Components:		
glycerol:		
Species	: Rabbit	
Result	: Mild eye irritation	
Exposure time	: 24 h	
Respiratory or skin sensit	tisation	
Skin sensitisation		
Not classified based on ava	ilable information.	
Respiratory sensitisation		
Not classified based on ava	illable information.	
Not classified based on ava	ilable information.	
• •	illable information. : No data available	
Not classified based on ava		
Not classified based on ava <u>Product:</u> Remarks		
Not classified based on ava <u>Product:</u> Remarks Chronic toxicity	: No data available	
Not classified based on ava <u>Product:</u> Remarks Chronic toxicity Germ cell mutagenicity	: No data available	
Not classified based on ava Product: Remarks Chronic toxicity Germ cell mutagenicity Not classified based on ava	: No data available	
Not classified based on available Product: Remarks Chronic toxicity Germ cell mutagenicity Not classified based on available Carcinogenicity Not classified based on available Reproductive toxicity	: No data available allable information.	
Not classified based on avainable Product: Remarks Chronic toxicity Germ cell mutagenicity Not classified based on avainable Carcinogenicity Not classified based on avainable	: No data available allable information.	
Not classified based on available Product: Remarks Chronic toxicity Germ cell mutagenicity Not classified based on available Carcinogenicity Not classified based on available Reproductive toxicity	: No data available allable information.	
Not classified based on available Product: Remarks Chronic toxicity Germ cell mutagenicity Not classified based on available Carcinogenicity Not classified based on available Reproductive toxicity Not classified based on available	: No data available nilable information. nilable information.	
Not classified based on available Product: Remarks Chronic toxicity Germ cell mutagenicity Not classified based on available Carcinogenicity Not classified based on available Reproductive toxicity Not classified based on available STOT - single exposure	: No data available allable information. allable information. allable information.	



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### Aspiration toxicity

Not classified based on available information.

### **Further information**

### Product:

Remarks

: No data available

### **SECTION 12. ECOLOGICAL INFORMATION**

Product:		
Toxicity to fish	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Components:		
glycerol:		
Toxicity to fish	:	LC0 (Leuciscus idus (Golden orfe)): > 250 mg/l Exposure time: 48 h
Persistence and degradabil	lity	
No data available		
Bioaccumulative potential		
Product:		
Bioaccumulation	:	Remarks: No data available
Mobility in soil		
No data available		
Other adverse effects		
Product:		
Additional ecological information	:	No data available

Disposal methods		
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**



		not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo	:	Not applicable
aircraft)		
Packing instruction	:	Not applicable
(passenger aircraft)		
IMDG-Code		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Proper shipping name Class	:	Not applicable Not applicable
	:	
Class	:	Not applicable
Class Subsidiary risk		Not applicable Not applicable
Class Subsidiary risk Packing group		Not applicable Not applicable Not applicable
Class Subsidiary risk Packing group Labels		Not applicable Not applicable Not applicable Not applicable

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **National Regulations**

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable
Special precautions for user		
Remarks	:	Not classified as dangerous in the meaning of transport regulations.

### **SECTION 15. REGULATORY INFORMATION**

# Safety, health and environmental regulations/legislation specific for the substance or mixture Standard for the Uniform : No poison schedule number allocated Scheduling of Medicines and

Standard for the Uniform	No poison schedule number allocated
Scheduling of Medicines and	
Poisons	

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use

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requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

### SECTION 16. OTHER INFORMATION

Further information		
SDS Number	: 60000008803	
Revision Date Date format	: 29.08.2023 : dd.mm.yyyy	
Full text of other abbrevia	ns	
AU OEL	: Australia. Workplace Exposure Standards for Airbo Contaminants.	orne

### AU OEL / TWA

: Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is



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not to be considered a warranty or quality specification. The 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, unless specified in the text.

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	HiFi Plus Master Mix (2x)
Manufacturer or supplier's de	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994

### Recommended use of the chemical and restrictions on use

### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Not a hazardous substance or mixture.

### **GHS** label elements

Not a hazardous substance or mixture.

### Other hazards which do not result in classification

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 1 -< 10

### SECTION 4. FIRST AID MEASURES

General advice	:	Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	
In case of eye contact	:	Remove contact lenses. Protect unharmed eye.



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If swallowed	and consult a physic : If accidentally swall Rinse mouth with wa	owed obtain immediate medical attention.
Most important symptoms and effects, both acute and delayed	: No information avail	
Notes to physician	: No information avail	able.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NOx)
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not let product enter drains.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Further information on storage stability	:	No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
	·			



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		(Form of exposure)	parameters / Permissible concentration		
glycerol	56-81-5	TWA (Mist)	10 mg/m3	AU OEL	
Personal protective Hand protection	equipment				
Remarks	its material l from one pro given by the through time	but also on other oducer to the oth producer conce	glove does not only quality features and er. Take note of the rning permeability and workplace condition of contact)	is different information nd break	

		(mechanical strain, duration of contact).
Eye protection	:	Safety glasses
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available



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Solubility in other solvent	s : No data available, soluble	

Partition coefficient: n- octanol/water Auto-ignition temperature	<ul><li>No data available</li><li>No data available</li></ul>	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed</li> <li>No decomposition if stored and applied as directed</li> <li>Stable under recommended storage conditions.</li> <li>Hazardous decomposition products formed under f conditions.</li> </ul>	
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed</li> </ul>	

### SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Not classified based on available information.

Product:		
Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available
Components:		
glycerol:		
Acute oral toxicity	:	LD50 Oral (Rat): 12,000 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 10,000 mg/kg
Skin corrosion/irritation		

Not classified based on available information.

### Product:

Remarks

: May cause skin irritation in susceptible persons.

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### **Components:**

### glycerol:

Species	:	Rabbit
Exposure time	:	24 h
Result	:	Mild skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

### Product:

Remarks	: May irritate eyes

### **Components:**

### glycerol:

Species	:	Rabbit
Result	:	Mild eye irritation
Exposure time	:	24 h

### Respiratory or skin sensitisation

### Skin sensitisation

Not classified based on available information.

### **Respiratory sensitisation**

Not classified based on available information.

### Product:

Remarks

: No data available

### Chronic toxicity

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

### Further information

### Product:

Remarks

No data available

:



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### **SECTION 12. ECOLOGICAL INFORMATION**

### Ecotoxicity

	Product:				
	Toxicity to fish	:	Remarks: No data available		
	Toxicity to algae/aquatic plants	:	Remarks: No data available		
	Toxicity to microorganisms	:	Remarks: No data available		
	Components:				
	glycerol:				
	Toxicity to fish	:	LC0 (Leuciscus idus (Golden orfe)): > 250 mg/l Exposure time: 48 h		
	Persistence and degradabili	ty			
	No data available				
	Bioaccumulative potential				
	Product:				
	Bioaccumulation	:	Remarks: No data available		
	Mobility in soil				
	No data available				
	Other adverse effects				
	Product:				
	Additional ecological information	:	No data available		
SEC	ECTION 13. DISPOSAL CONSIDERATIONS				

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer. Dispose of as hazardous waste in compliance with local and
		national regulations.
Contaminated packaging	•	Dispose of contents/ container to an approved incineration plant.

### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

UNRTDG	
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UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable



### **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations mixture	/legislation specific for the substance or
Standard for the Uniform : No poison sc Scheduling of Medicines and Poisons	hedule number allocated
Prohibition/Licensing Requirements	: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.







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### **SECTION 16. OTHER INFORMATION**

Further information		
SDS Number	:	60000009458
Revision Date	:	29.08.2023
Date format	:	dd.mm.yyyy

### Full text of other abbreviations

AU OEL

Australia. Workplace Exposure Standards for Airborne Contaminants.

AU OEL / TWA : Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals: ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Primer Mix
Manufacturer or supplier's de	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994

### Recommended use of the chemical and restrictions on use

Recommended use	•	L aboratory	chemicals

### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Not a hazardous substance or mixture.

### **GHS** label elements

Not a hazardous substance or mixture.

### Other hazards which do not result in classification

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Substance
Substance name	: Primer Mix

CAS-No.

### Components

No hazardous ingredients

### **SECTION 4. FIRST AID MEASURES**

General advice	: Show this safety data sheet to the doctor in attendance	æ.
If inhaled	: Move to fresh air. If symptoms persist, call a physician.	
In case of skin contact	: Wash off immediately with soap and plenty of water w removing all contaminated clothes and shoes.	/hile

: Not Assigned



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In case of eye contact		eye. The plenty of water for at least 15 minutes
If swallowed	<ul> <li>and consult a physician.</li> <li>If accidentally swallowed obtain immediate medical attentio Rinse mouth with water.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>	
Most important symptoms and effects, both acute and delayed	: No information avail	
Notes to physician	: No information avail	lable.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	No hazardous combustion products are known
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Recommended storage temperature	:	-20 °C
Further information on storage stability	:	No decomposition if stored and applied as directed.



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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Personal protective equipment

Hand protection

Remarks	: The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	: Safety glasses
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Flash point	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Relative density	:	No data available
Solubility(ies) Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	not determined
Decomposition temperature	:	No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>



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# SECTION 11. TOXICOLOGICAL INFORMATION

(	CTION 11. TOXICOLOGICAL I	NFO	ORMATION
	Acute toxicity Not classified based on availa	ble	information.
	<u>Product:</u> Acute oral toxicity	:	Remarks: No data available
	Acute inhalation toxicity	:	Remarks: No data available
	Acute dermal toxicity	:	Remarks: No data available
	Skin corrosion/irritation Not classified based on availa	ble	information.
	Product: Remarks	:	May cause skin irritation in susceptible persons.
	Serious eye damage/eye irri Not classified based on availa		
	<u>Product:</u> Remarks	:	May irritate eyes.
	Respiratory or skin sensitis	atio	n
	Skin sensitisation Not classified based on availa	ble	information.
	Respiratory sensitisation Not classified based on availa	ble	information.
	<u>Product:</u> Remarks	:	No data available
	Chronic toxicity		
	Germ cell mutagenicity Not classified based on availa	ble	information.
	Carcinogenicity Not classified based on availa	ble	information.
	Reproductive toxicity Not classified based on availa	ble	information.
	<b>STOT - single exposure</b> Not classified based on availa	ble	information.
	<b>STOT - repeated exposure</b> Not classified based on availa	ble	information.
	Aspiration toxicity Not classified based on availa	ble	information.



sparQ	mRNA-Seq	Kit, 96R

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Further information		
Product:		
Remarks	: No data available	
ECTION 12. ECOLOGICAL IN	FORMATION	
Ecotoxicity		
Product:		
Toxicity to fish	: Remarks: No data availat	
	Remarks. NO data avallat	JIE
Toxicity to algae/aquatic plants	: Remarks: No data availat	h
Toxicity to microorganisms	: Remarks: No data availat	ble
Persistence and degradab	ility	
No data available	·	
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: No data availat	ble
Mobility in soil		
No data available		
Other adverse effects		
Product:		
Additional ecological information	: No data available	
ECTION 13. DISPOSAL CONS	DERATIONS	
Disposal methods		

Waste from residues	: Dispose of contents/container in accordance with local regulation.	
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.	

### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

### UNRTDG

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable

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IATA-DGR		
UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction		Not applicable
(passenger aircraft)	•	
IMDG-Code		

### IMDG-Code

UN number	: N	lot applicable
Proper shipping name	: N	lot applicable
Class	: N	lot applicable
Subsidiary risk	: N	Not applicable
Packing group	: N	lot applicable
Labels	: N	lot applicable
EmS Code	: N	lot applicable
Marine pollutant	: N	lot applicable

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

:

### Special precautions for user

Remarks

Not classified as dangerous in the meaning of transport regulations.

### SECTION 15. REGULATORY INFORMATION

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

```
Standard for the Uniform : No poison schedule number allocated
Scheduling of Medicines and
Poisons
```

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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### **SECTION 16. OTHER INFORMATION**

Further information		
SDS Number	:	60000009459
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### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System: GLP - Good Laboratory Practice: IARC - International Agency for Research on Cancer: IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations: UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	T4 DNA Ligase
Manufacturer or supplier's d	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person	:	customer.service@quantabio.com compliance@quantabio.com
Emergency telephone number	:	CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994

### Recommended use of the chemical and restrictions on use

### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Not a hazardous substance or mixture.

### **GHS** label elements

Not a hazardous substance or mixture.

### Other hazards which do not result in classification

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 30 -< 50

### SECTION 4. FIRST AID MEASURES

General advice	:	Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	
In case of eye contact	:	Remove contact lenses. Protect unharmed eye.



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If swallowed	and consult a physic : If accidentally swallo Rinse mouth with wa	wed obtain immediate medical attention.
Most important symptoms and effects, both acute and delayed	: No information availa	•
Notes to physician	: No information availa	able.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Further information on storage stability	:	No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	



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			concentration	
glycerol	56-81-5	TWA (Mist)	10 mg/m3	AU OEL
Personal protective equip Hand protection				
Remarks	its material b from one pro	out also on other o oducer to the othe	glove does not only d quality features and is r. Take note of the in hing permeability and	different formation
	through time		workplace conditions	

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	7.5
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1.140 g/cm3
Solubility(ies) Water solubility	:	soluble
Solubility in other solvents	:	No data available



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Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity		
Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

### SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

**Product:** 

Not classified based on available information.

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available
Components:		
<b>glycerol:</b> Acute oral toxicity	:	LD50 Oral (Rat): 12,000 mg/kg

# Acute dermal toxicity : LD50 Dermal (Rabbit): 10,000 mg/kg

### Skin corrosion/irritation

Not classified based on available information.

### Product:

Remarks : May cause skin irritation in susceptible persons.

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### Components:

### glycerol:

Species	:	Rabbit
Exposure time	:	24 h
Result	:	Mild skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

### Product:

Remarks

: May irritate eyes.

### **Components:**

### glycerol:

Species	:	Rabbit
Result	:	Mild eye irritation
Exposure time	:	24 h

### Respiratory or skin sensitisation

### Skin sensitisation

Not classified based on available information.

### **Respiratory sensitisation**

Not classified based on available information.

### Product:

Remarks

: No data available

### **Chronic toxicity**

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

### Further information

### Product:

Remarks

: No data available

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### SECTION 12. ECOLOGICAL INFORMATION

Product:	
Toxicity to fish	: Remarks: No data available
Toxicity to algae/aquatic plants	: Remarks: No data available
Toxicity to microorganisms	: Remarks: No data available
Components:	
glycerol:	
Toxicity to fish	: LC0 (Leuciscus idus (Golden orfe)): > 250 mg/l Exposure time: 48 h
Persistence and degradabilit	у
No data available	
Bioaccumulative potential	
Product:	
Bioaccumulation	: Remarks: No data available
Mobility in soil	
No data available	
Other adverse effects	
Product:	
Additional ecological information	: No data available

### Disposal methods

Contaminated packaging	:	Empty containers should be taken to an approved waste
		handling site for recycling or disposal.

### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

<b>UNRTDG</b> UN number Proper shipping name Class Subsidiary risk Packing group	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable

### IATA-DGR



### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **National Regulations**

ADG UN number Proper shipping name Class Subsidiary risk Packing group Labels Hazchem Code		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
Special precautions for user Remarks	:	Not classified as dangerous in the meaning of transport regulations.

### **SECTION 15. REGULATORY INFORMATION**

# Safety, health and environmental regulations/legislation specific for the substance or mixture Standard for the Uniform : No poison schedule number allocated Scheduling of Medicines and Poisons Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule

10 of the model WHS Act and Regulations.

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### **SECTION 16. OTHER INFORMATION**

Further information	
SDS Number	: 60000009463
Revision Date Date format	: 29.08.2023 : dd.mm.yyyy
Full text of other abb	reviations
AU OEL	: Australia. Workplace Exposure Standards for Airborne Contaminants.

AU OEL / TWA : Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response: ELx - Loading rate associated with x% response: EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name :		Rapid Ligation Buffer (5x)
Manufacturer or supplier's de	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994

### Recommended use of the chemical and restrictions on use

### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Not a hazardous substance or mixture.

### **GHS** label elements

Not a hazardous substance or mixture.

# Other hazards which do not result in classification

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

No hazardous ingredients

### SECTION 4. FIRST AID MEASURES

General advice	:	Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes



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If swallowed	Rinse mouth with w	owed obtain immediate medical attention.		
Most important symptoms and effects, both acute and delayed	: No information avai			
Notes to physician	: No information avai	lable.		

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Carbon oxides Nitrogen oxides (NOx) Chlorine compounds Magnesimn oxides
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Further information on storage stability	:	No decomposition if stored and applied as directed.



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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Personal protective equipment

Hand protection

Remarks	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	:	Safety glasses
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear
Odour	:	odourless
Odour Threshold	:	No data available
рН	:	7.6 (20 - 22 °C)
Melting point/range	:	No data available
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	ca. 1 g/cm3 (25 °C)
Solubility(ies)		


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Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks :	May cause skin irritation in susceptible persons.
-----------	---

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks

: May irritate eyes.



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#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Product:

Remarks

: No data available

#### **Chronic toxicity**

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### Further information

#### Product:

Remarks

: No data available

#### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

#### Product:

Toxicity to fish

Remarks: No data available

Toxicity to algae/aquatic	:
plants	Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

2

#### Persistence and degradability

No data available



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Bioaccumulative potentia	al	
Product:		
Bioaccumulation	: Remarks: No data ava	ilable
Mobility in soil		
No data available		
Other adverse effects		
Product:		
Additional ecological information	: No data available	
ECTION 13. DISPOSAL CON	SIDERATIONS	
Disposal methods		
Contaminated packaging	: Empty containers shou handling site for recycl	Ild be taken to an approved waste ing or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

#### UNRTDG

UN number Proper shipping name Class Subsidiary risk Packing group Labels		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## National Regulations



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<b>ADG</b> UN number Proper shipping name Class Subsidiary risk Packing group Labels Hazchem Code	<ul> <li>Not applicable</li> </ul>	
Special precautions for Remarks		perous in the meaning of transport

#### SECTION 15. REGULATORY INFORMATION

# Safety, health and environmental regulations/legislation specific for the substance or mixture Standard for the Uniform : No poison schedule number allocated Scheduling of Medicines and Poisons : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and

Regulations.

#### **SECTION 16. OTHER INFORMATION**

Further info	ormation
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SDS Number	:	60000009464
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#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test



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population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

AU / EN



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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	1st Strand Enzyme Mix
Manufacturer or supplier's de	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994

#### Recommended use of the chemical and restrictions on use

Recommended use	: Laboratory chemicals
	. Laboratory chemicais

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

## Other hazards which do not result in classification

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 30 -< 50

#### SECTION 4. FIRST AID MEASURES

General advice	:	Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye.



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If swallowed	and consult a physic : If accidentally swallo Rinse mouth with wa	wed obtain immediate medical attention.
Most important symptoms and effects, both acute and delayed	: No information avail	•
Notes to physician	: No information avail	able.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Further information on storage stability	:	No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	



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			concentration	
glycerol	56-81-5	TWA (Mist)	10 mg/m3	AU OEL

#### Personal protective equipment

Hand protection

Remarks	<ul> <li>The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.</li> <li>The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).</li> </ul>
Eye protection	: Safety glasses
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available



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Solubility(ies) Water solubility	: soluble	
Solubility in other solvents	s : No data available	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

#### **Components:**

<b>glycerol:</b> Acute oral toxicity	:	LD50 Oral (Rat): 12,000 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 10,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.



sion	Revision Date: 29.08.2023	Date of last issue: 11.04.202 Date of first issue: 11.07.202
Product:		
Remarks	: May cause skin irrita	ation in susceptible persons.
Components:		
glycerol:		
Species	: Rabbit	
Exposure time	: 24 h	
Result	: Mild skin irritation	
Serious eye damage/	•	
	n available information.	
Product:	<b></b>	
Remarks	: May irritate eyes.	
Components:		
glycerol:		
Species	: Rabbit	
Result	: Mild eye irritation : 24 h	
Exposure time	. 2411	
Respiratory or skin s	ensitisation	
Skin sensitisation Not classified based or	n available information.	
Respiratory sensitisa	ation	
Not classified based or	n available information.	
Product:		
Remarks	: No data available	
Chronic toxicity		
Germ cell mutagenic Not classified based or	<b>ity</b> n available information.	
Carcinogenicity Not classified based or	n available information.	
Reproductive toxicity	1	
•	n available information.	
STOT - single exposu	ıre	
	n available information.	
STOT - repeated expo	osure	
	n available information.	
Aspiration toxicity		



arQ mRNA-Seq Kit,	96K	
sion	Revision Date: 29.08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022
Further information		
<u>Product:</u> Remarks	: No data available	
CTION 12. ECOLOGICAL INF	ORMATION	
Ecotoxicity		
<u>Product:</u> Toxicity to fish	: Remarks: No data ava	ailable
Toxicity to algae/aquatic plants	: Remarks: No data ava	ailable
Toxicity to microorganisms	: Remarks: No data ava	ailable
Components:		
<b>glycerol:</b> Toxicity to fish	: LC0 (Leuciscus idus ( Exposure time: 48 h	Golden orfe)): > 250 mg/l
<b>Persistence and degradabi</b> No data available	lity	
Bioaccumulative potential		
Product: Bioaccumulation	: Remarks: No data ava	ailable
<b>Mobility in soil</b> No data available		
Other adverse effects		
Product: Additional ecological information	: No data available	
CTION 13. DISPOSAL CONS	IDERATIONS	
Disposal methods Contaminated packaging	: Empty containers sho handling site for recyc	uld be taken to an approved waste ling or disposal.

## International Regulations

#### UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable



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Class Subsidiary risk Packing group Labels	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	<ul> <li>Not applicable</li> </ul>		
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	<ul> <li>Not applicable</li> </ul>		

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **National Regulations**

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable
Special precautions for user		
Remarks	:	Not classified as dangerous in the meaning of transport regulations.

#### **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legisla mixture	tion specific for the substance or
Standard for the Uniform : No poison schedule r Scheduling of Medicines and Poisons	number allocated
Prohibition/Licensing Requirements	: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.



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#### SECTION 16. OTHER INFORMATION

Further information		
SDS Number	:	600000011186
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Date format	:	dd.mm.yyyy

#### Full text of other abbreviations

AU OEL

: Australia. Workplace Exposure Standards for Airborne Contaminants.

#### AU OEL / TWA : Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.



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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	2nd Strand Buffer
Manufacturer or supplier's de	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994

#### Recommended use of the chemical and restrictions on use

Recommended use	: Laboratory chemicals
Recommended use	. Laboratory chemicais

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

# Other hazards which do not result in classification

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes



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If swallowed	Rinse mouth with wat	ved obtain immediate medical attention.
Most important symptoms and effects, both acute and delayed	: No information availa	•
Notes to physician	: No information availa	ble.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	No hazardous combustion products are known
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Further information on storage stability	:	No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# Personal protective equipment

Hand protection



|--|

Remarks :	The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection :	Safety glasses
Skin and body protection :	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	soluble
Solubility in other solvents	:	No data available



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Partition coefficient: n- octanol/water Auto-ignition temperature	<ul><li>No data available</li><li>No data available</li></ul>	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks

: May cause skin irritation in susceptible persons.

#### Serious eye damage/eye irritation

Not classified based on available information.

## Product:

## SAFETY DATA SHEET



sparQ mRNA-Seq	<b>Kit</b> , 96R
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#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Product:

Remarks

: No data available

#### **Chronic toxicity**

**Germ cell mutagenicity** Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### **Further information**

#### Product:

Remarks

: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### Product:

Toxicity to fish	: Remarks: No data availab	le
Toxicity to algae/aquatic plants	: Remarks: No data availab	le

# Toxicity to microorganisms : Remarks: No data available

#### Persistence and degradability

No data available

#### **Bioaccumulative potential**

#### Product:

Bioaccumulation : Remarks: No data available



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#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

Additional ecological information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Contaminated packaging

: Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

UN number Proper shipping name Class Subsidiary risk Packing group Labels	<ul> <li>Not applicable</li> </ul>
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	<ul> <li>Not applicable</li> </ul>
IMDG-Code UN number Proper shipping name Class	<ul><li>Not applicable</li><li>Not applicable</li><li>Not applicable</li></ul>

	rior applicable
:	Not applicable
	:

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

....

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable



10 of the model WHS Act and

Regulations.

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Subsidiary risk Packing group Labels Hazchem Code	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
Special precautions for us	er	
Remarks	: Not classified as dangerous regulations.	in the meaning of transport

#### SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons	: No poison schedule r	nun	nber allocated
Prohibition/Licensing Requirer	nents	:	There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

SDS Number	:	60000011187	
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#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National



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Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

AU / EN



VersionRevision Date:Date of last issue: 11.04.20234.029.08.2023Date of first issue: 11.07.2022

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	2nd Strand Enzyme Mix
Manufacturer or supplier's de	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994

#### Recommended use of the chemical and restrictions on use

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

## Other hazards which do not result in classification

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
glycerol	56-81-5	>= 30 -< 50

#### SECTION 4. FIRST AID MEASURES

General advice	:	Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye.



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If swallowed	and consult a physic : If accidentally swallo Rinse mouth with wa	wed obtain immediate medical attention.
Most important symptoms and effects, both acute and delayed	: No information avail	•
Notes to physician	: No information avail	able.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Further information on storage stability	:	No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	



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			concentration	
glycerol	56-81-5	TWA (Mist)	10 mg/m3	AU OEL

#### Personal protective equipment

Hand protection

Remarks	specifications of Regul EN 374 derived from it The choice of an appro- its material but also on from one producer to t given by the producer	opriate glove does not only depend on other quality features and is different he other. Take note of the information concerning permeability and break special workplace conditions
Eye protection	Safety glasses	,
Skin and body protection		on according to the amount and angerous substance at the work place. gainst chemicals

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available



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Solubility(ies) Water solubility	: soluble	
Solubility in other solvents	s : No data available	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

#### **Components:**

<b>glycerol:</b> Acute oral toxicity	:	LD50 Oral (Rat): 12,000 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 10,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.



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Product:		
Remarks	: May cause skin irrita	ation in susceptible persons.
Components:		
glycerol:		
Species	: Rabbit	
Exposure time	: 24 h	
Result	: Mild skin irritation	
Serious eye damage/	•	
	n available information.	
Product:	<b></b>	
Remarks	: May irritate eyes.	
Components:		
glycerol:		
Species	: Rabbit	
Result	: Mild eye irritation : 24 h	
Exposure time	. 2411	
Respiratory or skin s	ensitisation	
Skin sensitisation Not classified based or	n available information.	
Respiratory sensitisa	ation	
Not classified based or	n available information.	
Product:		
Remarks	: No data available	
Chronic toxicity		
Germ cell mutagenic Not classified based or	<b>ity</b> n available information.	
Carcinogenicity Not classified based or	n available information.	
Reproductive toxicity	1	
•	n available information.	
STOT - single exposu	ıre	
	n available information.	
STOT - repeated expo	osure	
	n available information.	
Aspiration toxicity		



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sion	Revision Date: 29.08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022
Further information		
Product: Remarks	: No data available	
CTION 12. ECOLOGICAL INF	ORMATION	
Ecotoxicity		
Product:		
Toxicity to fish	: Remarks: No data av	railable
Toxicity to algae/aquatic plants	: Remarks: No data av	railable
Toxicity to microorganisms	: Remarks: No data av	railable
Components:		
glycerol:		
Toxicity to fish	: LC0 (Leuciscus idus Exposure time: 48 h	(Golden orfe)): > 250 mg/l
Persistence and degradabil	lity	
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: No data av	ailable
<b>Mobility in soil</b> No data available		
Other adverse effects		
Product: Additional ecological information	: No data available	
CTION 13. DISPOSAL CONSI	DERATIONS	
Disposal methods		
Contaminated packaging	: Empty containers sho handling site for recy	ould be taken to an approved waste cling or disposal.

# International Regulations

#### UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable



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Class Subsidiary risk Packing group Labels	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	<ul> <li>Not applicable</li> </ul>	
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	<ul> <li>Not applicable</li> </ul>	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **National Regulations**

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable
Special precautions for use	r	
Remarks	:	Not classified as dangerous in the meaning of transport regulations.

#### **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/leg	islation specific for the substance or
Standard for the Uniform : Schedule 6 Scheduling of Medicines and Poisons	
Prohibition/Licensing Requirements	: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.



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#### SECTION 16. OTHER INFORMATION

Further information		
SDS Number	:	600000011188
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#### Full text of other abbreviations

AU OEL

: Australia. Workplace Exposure Standards for Airborne Contaminants.

#### AU OEL / TWA : Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.



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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	UDI Dilution Buffer
Manufacturer or supplier's de	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994

#### Recommended use of the chemical and restrictions on use

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

# Other hazards which do not result in classification

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

#### SECTION 4. FIRST AID MEASURES

General advice	:	Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes



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If swallowed	Rinse mouth with wat	ved obtain immediate medical attention.
Most important symptoms and effects, both acute and delayed	: No information availa	•
Notes to physician	: No information availa	ble.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	No hazardous combustion products are known
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Further information on storage stability	:	No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# Personal protective equipment

Hand protection



|--|

Remarks :	The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection :	Safety glasses
Skin and body protection :	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	soluble
Solubility in other solvents	:	No data available



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Partition coefficient: n- octanol/water Auto-ignition temperature	<ul><li>No data available</li><li>No data available</li></ul>	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks

: May cause skin irritation in susceptible persons.

#### Serious eye damage/eye irritation

Not classified based on available information.

## Product:

Remarks	: May irritate eyes.
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## SAFETY DATA SHEET



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#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Product:

Remarks

: No data available

#### **Chronic toxicity**

**Germ cell mutagenicity** Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### **Further information**

#### Product:

Remarks

: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### Product:

Toxicity to fish	: Remarks: No data available
Toxicity to algae/aquatic plants	: Remarks: No data available

#### Toxicity to microorganisms : Remarks: No data available

#### Persistence and degradability

No data available

#### **Bioaccumulative potential**

#### Product:

Bioaccumulation : Remarks: No data available



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#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

Additional ecological information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Contaminated packaging

: Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

UN number Proper shipping name Class Subsidiary risk Packing group Labels		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IATA-DGR UN/ID No.		Not oppliaable
Proper shipping name	÷	Not applicable Not applicable
Class		Not applicable
Subsidiary risk	÷	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passenger aircraft)	:	Not applicable
IMDG-Code		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable

Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
EmS Code	: Not applicable
Marine pollutant	: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

....

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable



10 of the model WHS Act and

Regulations.

## sparQ mRNA-Seq Kit, 96R

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Subsidiary risk Packing group Labels Hazchem Code	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
Special precautions for us	er	
Remarks	: Not classified as dangerous regulations.	in the meaning of transport

#### SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons	No poison schedule number allocated		
Prohibition/Licensing Requirer	nents	:	There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

SDS Number	: 600000	60000011189	
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Date format	: dd.mm	.уууу	

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National


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Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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# sparQ mRNA-Seq Kit, 96R



)uanta<mark>bio</mark>

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Oligo-DT Beads
Manufacturer or supplier's de	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994

#### Recommended use of the chemical and restrictions on use

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

# Other hazards which do not result in classification

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes



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If swallowed	Rinse mouth with wate	ved obtain immediate medical attention.
Most important symptoms and effects, both acute and delayed	: No information availab	•
Notes to physician	: No information availab	ble.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	No hazardous combustion products are known
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Further information on storage stability	:	No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# Personal protective equipment

Hand protection



|--|

Remarks :	The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection :	Safety glasses
Skin and body protection :	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	soluble
Solubility in other solvents	:	No data available



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Partition coefficient: n- octanol/water Auto-ignition temperature	<ul><li>No data available</li><li>No data available</li></ul>	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks

: May cause skin irritation in susceptible persons.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks	: May irritate eyes.
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#### SAFETY DATA SHEET



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#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Product:

Remarks

: No data available

#### **Chronic toxicity**

**Germ cell mutagenicity** Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### **Further information**

#### Product:

Remarks

: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### Product:

Toxicity to fish	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available

#### , .

#### Persistence and degradability

No data available

#### **Bioaccumulative potential**

#### Product:

Bioaccumulation : Remarks: No data available



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#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

Additional ecological information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Contaminated packaging

: Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

UN number Proper shipping name Class Subsidiary risk Packing group Labels		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IATA-DGR UN/ID No.		Not applicable
Proper shipping name	÷	Not applicable
Class	÷	Not applicable
Subsidiary risk		Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passenger aircraft)	:	Not applicable
IMDG-Code		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable

Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
EmS Code	: Not applicable
Marine pollutant	: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

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ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable



10 of the model WHS Act and

Regulations.

# sparQ mRNA-Seq Kit, 96R

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Subsidiary risk Packing group Labels Hazchem Code	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
Special precautions for us	ser	
Remarks	: Not classified as dangerous regulations.	s in the meaning of transport

#### SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons	: No poison schedule r	nun	nber allocated
Prohibition/Licensing Requirer	nents	:	There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

SDS Number	:	60000011614
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#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National



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Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Binding Buffer			
Manufacturer or supplier's details					
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA			
Telephone	:	+ 1 888 959 5165			
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994			

#### Recommended use of the chemical and restrictions on use

Recommended use	: Laboratory chemicals
	. Eaboratory onormould

#### **SECTION 2. HAZARDS IDENTIFICATION**

<b>GHS Classification</b> Acute toxicity (Oral)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irritation	:	Category 2A
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary statements	:	<b>Prevention:</b> P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Other hazards which do not result in classification None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



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Substance / Mixture	:	Mixture

## Components

Chemical name C/	AS-No.	Concentration (% w/w)
tetramethylammonium bromide 64	4-20-0	>= 10 -< 20

#### SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	
If swallowed	:	If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	No information available. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.
Notes to physician	:	No information available.

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media Specific hazards during firefighting	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NOx) Bromine compounds
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
	:	Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.
Methods and materials for	:	Soak up with inert absorbent material (e.g. sand, silica gel,



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containment and cleaning up	)	acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.		
SECTION 7. HANDLING AND ST	ror.	AGE		
Advice on protection against fire and explosion	:	Normal measures for preve	ntive fire protection.	
Advice on safe handling	:	<ul> <li>Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.</li> </ul>		

		regulations.
Hygiene measures	:	Keep away from food and drink.
		Wash hands before breaks and at the end of workday.
		Ensure adequate ventilation, especially in confined areas.
		Avoid contact with the skin and the eyes.
		When using do not eat, drink or smoke.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place.
Further information on storage stability	:	No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

Hand protection

Material	:	Protective gloves
Remarks	:	The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	:	Safety glasses Wear face-shield and protective suit for abnormal processing problems. Ensure that eyewash stations and safety showers are close
Skin and body protection	:	to the workstation location. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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Appearance	: liquid	
Colour	: No data available	
Odour	: No data available	
Odour Threshold	: No data available	
рН	: No data available	
Melting point/range	: No data available	
Boiling point/boiling range	: No data available	
Flash point	: No data available	
Evaporation rate	: No data available	
Burning rate	: No data available	
Upper explosion limit / Upper flammability limit	r : No data available	
Lower explosion limit / Lower flammability limit	: No data available	
Vapour pressure	: No data available	
Relative vapour density	: No data available	
Relative density	: No data available	
Density	: No data available	
Solubility(ies) Water solubility	: soluble	
Solubility in other solvents	s : No data available	
Partition coefficient: n-	: No data available	
octanol/water Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

#### SECTION 10. STABILITY AND REACTIVITY



parQ mRNA-Seq Kit,				
rsion )	Revision Date: 29.08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022		
Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if</li> <li>Stable under recom Hazardous decomp conditions.</li> </ul>	Keep away from oxidizing agents, and acidic or alkaline		
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if</li> </ul>			
CTION 11. TOXICOLOGICA	L INFORMATION			
Acute toxicity Harmful if swallowed.				
Product: Acute oral toxicity	: Remarks: No data a	vailable		
Acute inhalation toxicity	: Remarks: No data a	vailable		
Acute dermal toxicity	: Remarks: No data a	Remarks: No data available		
Components:				
tetramethylammonium bro	omide:			
Acute oral toxicity	: LD50 Oral (Rat): 50	mg/kg		
Skin corrosion/irritation Causes skin irritation.				
<u>Product:</u> Remarks	: May irritate skin.			
Serious eye damage/eye i Causes serious eye irritatio				
Product:				
Remarks	: May cause irreversit	ole eye damage.		
Respiratory or skin sensit	isation			
Skin sensitisation Not classified based on ava	ilable information.			
Respiratory sensitisation				
Not aloogified beauding as	lable inferrentian			

Not classified based on available information.

#### Product:



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#### **Chronic toxicity**

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### Components:

#### tetramethylammonium bromide:

Assessment : May cause respiratory irritation.

:

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### Further information

#### Product:

Remarks

No data available

#### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

<u>Product:</u> Toxicity to fish	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Persistence and degradabili No data available	ity	
Bioaccumulative potential		
Product: Bioaccumulation	:	Remarks: No data available
Mobility in soil		

No data available



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Other adverse effects		
Product:		
Additional ecological information	: No data available	

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods		
Waste from residues	:	Send to a licensed waste management company.
		Dispose of as hazardous waste in compliance with local and
		national regulations.
Contaminated packaging	:	Dispose of as unused product.
		Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

UNRTDG	
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UN number Proper shipping name Class Subsidiary risk Packing group Labels	<ul> <li>Not applicable</li> </ul>
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	<ul> <li>Not applicable</li> </ul>
IMDG-Code UN number Proper shipping name Class Subsidiary risk	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>

Packing group		Not applicable
Packing group		
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

ADG
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UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable



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Subsidiary risk Packing group Labels Hazchem Code	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
Special precautions for us	ser	
Remarks	: Not classified as dangerous regulations.	in the meaning of transport

#### SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform	:	Schedule 6
Scheduling of Medicines and		
Poisons		

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

SDS Number	:	60000011615
Revision Date Date format		29.08.2023 dd.mm.yyyy

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National



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Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

AU / EN



4.0 29.08.2023 Date of first issue: 11.07.2022		Revision Date: 29.08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022
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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Suspension Buffer
Manufacturer or supplier's de	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994

#### Recommended use of the chemical and restrictions on use

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

# Other hazards which do not result in classification

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes



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If swallowed	Rinse mouth with wat	ved obtain immediate medical attention.
Most important symptoms and effects, both acute and delayed	: No information available.	
Notes to physician	: No information availa	ble.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	No hazardous combustion products are known
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Further information on storage stability	:	No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# Personal protective equipment

Hand protection



|--|

Remarks :	The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection :	Safety glasses
Skin and body protection :	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	soluble
Solubility in other solvents	:	No data available



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Partition coefficient: n- octanol/water Auto-ignition temperature	<ul><li>No data available</li><li>No data available</li></ul>	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks

: May cause skin irritation in susceptible persons.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks	: May irritate eyes.
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#### SAFETY DATA SHEET



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#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Product:

Remarks

: No data available

#### **Chronic toxicity**

**Germ cell mutagenicity** Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### **Further information**

#### Product:

Remarks

: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### Product:

Toxicity to fish	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available

#### Persistence and degradability

No data available

#### **Bioaccumulative potential**

#### Product:

Bioaccumulation : Remarks: No data available



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Mobility in soil		
No data available		
Other adverse effects		
Product: Additional ecological information	: No data available	
SECTION 13. DISPOSAL CO	NSIDERATIONS	
Disposal methods		
Waste from residues	: Dispose of contents/ regulation.	container in accordance with local

Empty containers should be taken to an approved waste

handling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

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#### International Regulations

Contaminated packaging

<b>UNRTDG</b> UN number Proper shipping name Class Subsidiary risk Packing group Labels		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **National Regulations**

- ADG UN number
- : Not applicable



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Proper shipping name Class Subsidiary risk Packing group Labels Hazchem Code	<ul> <li>Not applicable</li> </ul>	
Special precautions for us	er	
Remarks	: Not classified as dangerous regulations.	in the meaning of transport

#### SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons	: No poison schedule	nun	nber allocated
Prohibition/Licensing Require	nents	:	There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and

Regulations.

#### SECTION 16. OTHER INFORMATION

#### **Further information**

SDS Number	:	60000011616
Revision Date	-	29.08.2023
Date format	:	dd.mm.yyyy

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No



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Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Wash Buffer
Manufacturer or supplier's d	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person Emergency telephone	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887
number		CHEMTREC: +(61)-290372994

#### Recommended use of the chemical and restrictions on use

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

# Other hazards which do not result in classification

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes



Version 4.0	Revision Date: 29.08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022
If swallowed	Rinse mouth with wat	ved obtain immediate medical attention.
Most important symptoms and effects, both acute and delayed	: No information availa	•
Notes to physician	: No information availa	ble.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	No hazardous combustion products are known
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Further information on storage stability	:	No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# Personal protective equipment

Hand protection



|--|

Remarks :	The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection :	Safety glasses
Skin and body protection :	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	soluble
Solubility in other solvents	:	No data available



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Partition coefficient: n- octanol/water Auto-ignition temperature	<ul><li>No data available</li><li>No data available</li></ul>	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions.</li> <li>Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks

: May cause skin irritation in susceptible persons.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks	: May irritate eyes.
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#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Product:

Remarks

: No data available

#### **Chronic toxicity**

**Germ cell mutagenicity** Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### Further information

#### Product:

Remarks

: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### Product:

Toxicity to fish	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available

#### Persistence and degradability

No data available

#### **Bioaccumulative potential**

#### Product:

Bioaccumulation : Remarks: No data available



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#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

Additional ecological information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Contaminated packaging

: Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

#### UNRTDG

UN number Proper shipping name Class Subsidiary risk Packing group Labels	<ul> <li>Not applicabl</li> </ul>	e e e
IATA-DGR		
UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	<ul> <li>Not applicabl</li> </ul>	e e e e
IMDG-Code UN number Proper shipping name	: Not applicabl : Not applicabl	

# UN number:Not applicableProper shipping name:Not applicableClass:Not applicableSubsidiary risk:Not applicablePacking group:Not applicableLabels:Not applicable

EmS Code:Not applicableMarine pollutant:Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable



10 of the model WHS Act and

Regulations.

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Subsidiary risk Packing group Labels Hazchem Code	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
Special precautions for us	ser		
Remarks	: Not classified as dangerous regulations.	s in the meaning of transport	

#### SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons	: No poison schedule r	num	nber allocated
Prohibition/Licensing Requirer	nents	:	There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

SDS Number	: 6000	00011617
Revision Date	: 29.08	3.2023
Date format	: dd.m	m.yyyy

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National



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Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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# sparQ mRNA-Seq Kit, 96R



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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

:	mRNA Frag Prime Buffer
eta	ils
:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
:	+ 1 888 959 5165
:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994
	eta : :

#### Recommended use of the chemical and restrictions on use

Recommended use	: Laboratory chemicals
Recommended use	. Laboratory chemicais

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

# Other hazards which do not result in classification

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

#### SECTION 4. FIRST AID MEASURES

General advice	:	Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes



Version 4.0	Revision Date: 29.08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022	
If swallowed	Rinse mouth with water.	otain immediate medical attention.	
Most important symptoms and effects, both acute and delayed	: No information available.		
Notes to physician	: No information available.		
SECTION 5. FIREFIGHTING ME	ASURES		

Suitable extinguishing media Specific hazards during firefighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NOx) potassium oxide Chlorine compounds
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.
Further information on storage stability	:	No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.


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# Personal protective equipment

Hand protection

Remarks :	The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection :	Safety glasses
Skin and body protection :	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	soluble



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Solubility in other solvents	s : No data available	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

# SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

# SECTION 11. TOXICOLOGICAL INFORMATION

## Acute toxicity

Not classified based on available information.

# Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

## Skin corrosion/irritation

Not classified based on available information.

# Product:

Remarks

: May cause skin irritation in susceptible persons.

# Serious eye damage/eye irritation

Not classified based on available information.

# Product:

Remarks : May irritate eyes.

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## Respiratory or skin sensitisation

## Skin sensitisation

Not classified based on available information.

# **Respiratory sensitisation**

Not classified based on available information.

## Product:

Remarks

: No data available

#### **Chronic toxicity**

**Germ cell mutagenicity** Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

# Reproductive toxicity

Not classified based on available information.

# STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### **Further information**

#### Product:

Remarks

: No data available

# **SECTION 12. ECOLOGICAL INFORMATION**

# Ecotoxicity

#### Product:

Toxicity to fish	: Remarks: No data available
Toxicity to algae/aquatic plants	: Remarks: No data available

# Toxicity to microorganisms : Remarks: No data available

# Persistence and degradability

No data available

# **Bioaccumulative potential**

# Product:

Bioaccumulation : R

### Remarks: No data available



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# Mobility in soil

No data available

## Other adverse effects

#### Product:

Additional ecological information

: No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

## **Disposal methods**

Contaminated packaging

: Empty containers should be taken to an approved waste handling site for recycling or disposal.

# **SECTION 14. TRANSPORT INFORMATION**

# International Regulations

UN number Proper shipping name Class Subsidiary risk Packing group Labels		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IATA-DGR UN/ID No.		Not oppliaable
Proper shipping name	÷	Not applicable Not applicable
Class		Not applicable
Subsidiary risk	÷	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passenger aircraft)	:	Not applicable
IMDG-Code		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable

Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# National Regulations

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ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable



10 of the model WHS Act and

Regulations.

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Subsidiary risk Packing group Labels Hazchem Code	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
Special precautions for us	ser	
Remarks	: Not classified as dangerous regulations.	in the meaning of transport

# SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons	: No poison schedule r	num	nber allocated
Prohibition/Licensing Requirer	nents	:	There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

SDS Number	:	60000011619
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#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National



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Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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# SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Bead Booster
Manufacturer or supplier's de	eta	ils
Company	:	Quantabio, LLC. 100 Cummings Center Suite 407J Beverly, MA 01915 USA
Telephone	:	+ 1 888 959 5165
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	:	customer.service@quantabio.com compliance@quantabio.com CHEMTREC: +1 703-527-3887 CHEMTREC: +(61)-290372994

**Revision Date:** 

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# Recommended use of the chemical and restrictions on use

	_	Laborates, showstale	
Recommended use	-	Laboratory chemicals	

# **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification Respiratory sensitisation	:	Category 1
GHS label elements	_	
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements	:	Prevention:
		P261 Avoid breathing mist or vapours. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
		Response:
		P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

Other hazards which do not result in classification None known.



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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture		
Components				
Chemical name			CAS-No.	Concentration (% w/w)
proteinase K			39450-01-6	>= 1 -< 10

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
If inhaled	:	advice. Keep respiratory tract clear.
In case of skin contact	:	If symptoms persist, call a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	:	If accidentally swallowed obtain immediate medical attention. Rinse mouth with water.
Most important symptoms and effects, both acute and delayed Notes to physician	:	Never give anything by mouth to an unconscious person. May cause allergy or asthma symptoms or breathing difficulties if inhaled. No information available. No information available.

# **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Specific hazards during firefighting	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	No data available
Specific extinguishing methods	:	In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.



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Methods and materials for containment and cleanin		acid binder, universa	osorbent material (e.g. sand, silica gel, al binder, sawdust). sed containers for disposal.
SECTION 7. HANDLING ANI	D STOR	AGE	
Advice on protection aga fire and explosion	inst :	Normal measures fo	r preventive fire protection.
Advice on safe handling	:	Avoid contact with sl For personal protect Smoking, eating and application area. Provide sufficient air Dispose of rinse wat regulations. Persons susceptible allergies, chronic or	urs/dust. tain special instructions before use. kin and eyes.
Hygiene measures	:	Keep away from foo Wash hands before Ensure adequate ve	breaks and at the end of workday. ntilation, especially in confined areas. le skin and the eyes.
Conditions for safe stora	ge :		y closed in a dry and well-ventilated
Further information on storage stability	:		stored and applied as directed.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# Personal protective equipment

Respiratory protection	:	In the case of vapour formation use a respirator with an approved filter.
Hand protection		
Material	:	Protective gloves
Remarks	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	:	Tightly fitting safety goggles Do not wear contact lenses.
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals



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# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	light cream
Odour	:	odourless
Odour Threshold	:	No data available
рН	:	7.5
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1.10 g/cm3
Solubility(ies) Water solubility	:	No data available
Solubility in other solvents	:	soluble
Partition coefficient: n-	:	No data available
octanol/water Auto-ignition temperature	:	not determined
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	7.741 mm2/s ( 20 °C) Method: DIN 51562
Explosive properties	:	Not applicable
Oxidizing properties	:	No data available



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## SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Keep away from oxidizing agents, and acidic or alkaline products.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

# SECTION 11. TOXICOLOGICAL INFORMATION

## Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

# Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks : May cause skin irritation and/or dermatitis.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks : The product causes irritation of eyes, skin and mucous membranes.

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

### **Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Product:

Remarks : May cause sensitisation by inhalation and skin contact.

### **Chronic toxicity**

## Germ cell mutagenicity

Not classified based on available information.



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Carcinogenicit Not classified ba	<b>y</b> ased on available information.	
Reproductive t Not classified ba	<b>oxicity</b> ased on available information.	
STOT - single e Not classified ba	exposure ased on available information.	
STOT - repeate Not classified ba	<b>d exposure</b> ased on available information.	
Aspiration toxi	<b>city</b> ased on available information.	
Further inform	ation	
Product:		
Remarks	: No data available	

# **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxici	ty
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Pr	od	luc	t:	
-				

Toxicity to fish	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Persistence and degradab No data available Bioaccumulative potential	-	
Product: Bioaccumulation	:	Remarks: No data available
<b>Mobility in soil</b> No data available <b>Other adverse effects</b>		
Product: Additional ecological information	:	No data available
ECTION 13. DISPOSAL CONS	IDEF	RATIONS

# SE

Disposal methods	
Waste from residues	: Send to a licensed waste management company.
	Dispose of as hazardous waste in compliance with local and

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Contaminated packaging

national regulations.Dispose of as unused product. Do not re-use empty containers.

# SECTION 14. TRANSPORT INFORMATION

#### International Regulations

## UNRTDG

UN number Proper shipping name Class Subsidiary risk Packing group Labels	<ul> <li>Not applicable</li> </ul>	le le le le
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	<ul> <li>Not applicable</li> </ul>	le le le le le
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels	<ul> <li>Not applicable</li> </ul>	le le le le

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

:

:

:

Not applicable

Not applicable

Not applicable for product as supplied.

#### National Regulations

EmS Code

Marine pollutant

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

### Special precautions for user

Remarks
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Not classified as dangerous in the meaning of transport regulations.



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# **SECTION 15. REGULATORY INFORMATION**

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

Standard for the Uniform : No poison schedule number allocated Scheduling of Medicines and Poisons

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

# SECTION 16. OTHER INFORMATION

## **Further information**

SDS Number	:	60000011745
Revision Date Date format	-	29.08.2023 dd.mm.yyyy

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United



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Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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