

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, 24R

Catalog number:	95218-024
Document ID:	80000010707
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
Recommended use	: Laboratory chen

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, ca Remove contact lense Protect unharmed eye	es. e. plenty of water for at least 15 minutes
If swallowed	: If accidentally swallow Rinse mouth with wate	ed 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	:	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	 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). Safety glasses Choose body protection according to the amount and concentration of the dangerous substance at the work place.
	concentration of the dangerous substance at the work place. 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		
Density			
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	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.
Hazardous decomposition products	: No data available

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



rsion)	Revision Date: 29.08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022
Acute dermal toxicity	: LD50 Dermal (Rabbi	t): 10,000 mg/kg
Skin corrosion/irritation		
Not classified based on av	ailable information.	
Product:		
Remarks	: May cause skin irritat	tion in susceptible persons.
Components:		
glycerol:		
Species	: Rabbit	
Exposure time	: 24 h	
Result	: Mild skin irritation	
Serious eye damage/eye		
Not classified based on av	ailable information.	
Product:		
Remarks	: May irritate eyes.	
Components:		
glycerol:		
Species	: Rabbit	
Result	: Mild eye irritation	
Exposure time	: 24 h	
Respiratory or skin sens	itisation	
Skin sensitisation		
Not classified based on av	ailable information.	
Respiratory sensitisatior	n	
Not classified based on av	ailable information.	
Product:		
Remarks	: No data available	
Chronic toxicity		
Germ cell mutagenicity		
Not classified based on av	ailable information.	
Carcinogenicity		
Not classified based on av	ailable information.	
Reproductive toxicity		
Not classified based on av	ailable information.	
STOT - single exposure		
Not classified based on av	allable information.	
Not classified based on av STOT - repeated exposu		



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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 degradabi	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

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UNRTDG UN number Proper shipping name Class Subsidiary risk Packing group Labels	 Not applicable 	
IATA-DGR UN/ID No.	: 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 : 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	:	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 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



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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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and consult a phys : If accidentally swal Rinse mouth with w	lowed obtain immediate medical attention.
: No information ava	
: No information ava	ilable.
	Rinse thoroughly w and consult a phys If accidentally swal Rinse mouth with w Never give anythin No information avai

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	
Remarks	: The choice	of an appropriate	alove does not only	depend on	
Remarks	its material from one p given by th through tim	but also on other oducer to the othe producer conce	glove does not only quality features and er. Take note of the i ming permeability an workplace condition of contact).	is different information id break	
Remarks Eye protection Skin and body protection	its material from one pr given by th through tim (mechanica : Safety glas	but also on other oducer to the othe e producer concer es, and of special al strain, duration of ses	quality features and er. Take note of the i ming permeability an workplace condition	is different information id break is	

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 solven	ts : No data available, soluble	

····,		
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	lo decomposition if stored a lo decomposition if stored a Stable under recommended lazardous decomposition p onditions.	and applied as directed. storage conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	lo data available lo data available lo decomposition if stored a	and applied as directed.

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	: Ma	ay irritate eyes	S

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

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Product:	
Toxicity to fish	: Remarks: No data available
	Remarks. NU uala avaliable
Toxicity to algae/aquatic plants	: Remarks: No data available
plants	Remarks. No data avaliable
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	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

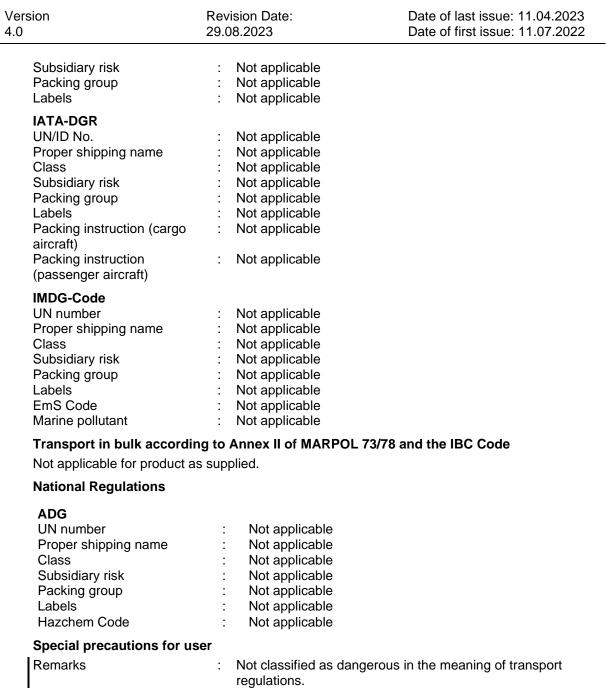
Disposal methods Waste from residues : Do not dispose of waste into sewer. Dispose of as hazardous waste in compliance with local and national regulations. Contaminated packaging : Dispose of contents/ container to an approved incineration plant.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

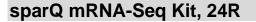
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable



SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/l mixture	egislation specific for the substance or
Standard for the Uniform : No poison sche Scheduling of Medicines and Poisons	edule 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
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Date Iomat	•	аа.ппп.уууу

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	:	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	: Laboratory chemicals
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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.
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.

: Not Assigned



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In case of eye contact		eye. The plenty of water for at least 15 minutes
If swallowed	 and consult a physician. 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 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	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.



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SECTION 11. TOXICOLOGICAL INFORMATION

C	CTION 11. TOXICOLOGICAL INFORMATION				
	Acute toxicity Not classified based on availal	ble	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 availal	ble	information.		
	<u>Product:</u> Remarks	:	May cause skin irritation in susceptible persons.		
	Serious eye damage/eye irrit Not classified based on availal				
	<u>Product:</u> Remarks	:	May irritate eyes.		
	Respiratory or skin sensitisa	atio	n		
	Skin sensitisation Not classified based on availab	ole	information.		
	Respiratory sensitisation Not classified based on available information.				
	<u>Product:</u> Remarks	:	No data available		
	Chronic toxicity				
	Germ cell mutagenicity Not classified based on availal	ble	information.		
	Carcinogenicity Not classified based on availal	ble	information.		
	Reproductive toxicity Not classified based on available	ble	information.		
	STOT - single exposure Not classified based on available	ble	information.		
	STOT - repeated exposure Not classified based on available	ble	information.		
	Aspiration toxicity Not classified based on availal	ble	information.		



sparQ mRNA-Seq Kit, 24R

reion	Rov	ision Date:	Date of last issue: 11.04.2023		
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Further information					
<u>Product:</u> Remarks		No data available			
	-				
CTION 12. ECOLOGICAL IN	FORM	ΜΑΤΙΟΝ			
Ecotoxicity					
Product:					
Toxicity to fish	:	Remarks: No data available			
		Remarks. No data avaliable			
Toxicity to algae/aquatic plants	:	Remarks: No data available			
Toxicity to microorganisms	:	Remarks: No data available			
Persistence and degradab	oility				
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			
CTION 13. DISPOSAL CONS	SIDER	ATIONS			

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

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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	:	Not applicable
aircraft)		
Packing instruction	:	Not applicable
(passenger aircraft)		
IMDG-Code		

IMDG-Code

UN number	:	Not applicable
Proper shipping name	:	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
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

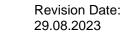
```
Standard for the Uniform : No poison schedule number allocated
Scheduling of Medicines and
Poisons
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Prohibition/Licensing Requirements

: 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

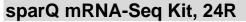
Further information		
SDS Number	:	60000009459
Revision Date Date format		29.08.2023 dd.mm.yyyy

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 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

Recommended use	: Laboratory chemicals
Recommended use	: Laboratory chen

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	able.
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	



ersion D	Revision Date: 29.08.2023		Date of last issue: 1 Date of first issue: 1	
glycerol	56-81-5	TWA (Mist)	concentration 10 mg/m3	AU OEL
Personal protective equip	ment			
Hand protection				
Remarks	its material b from one pro given by the through time	ut also on other o ducer to the othe producer concer	glove does not only quality features and er. Take note of the ning permeability ar workplace conditior of contact).	is different information id break
Eye protection Skin and body protection	: Safety glasse : Choose body	es / protection acco n of the dangerou	rding to the amount us substance at the	

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	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

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 oral toxicity	•	

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

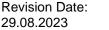
Skin corrosion/irritation

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
piants	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

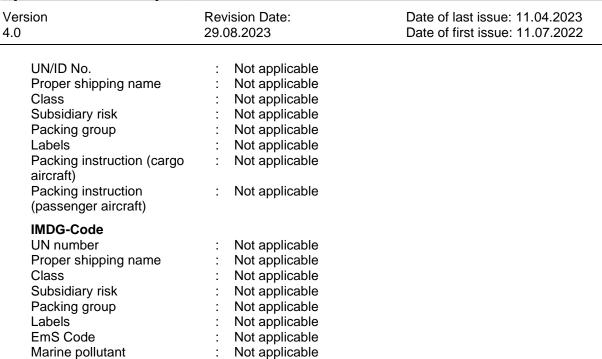
Contaminated packaging	:	Empty containers should be taken to an approved waste
		handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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

IATA-DGR



uantabio

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	: 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

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

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	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	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

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.
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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:

plants

Toxicity to fish

Remarks: No data available

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

Remarks: No data available Toxicity to microorganisms :

2

Persistence and degradability

No data available



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)	29.08.2023	Date of first issue: 11.07.2022
Bioaccumulative potentia	ıl	
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



ersion 0	Revision Date: 29.08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022
ADG UN number Proper shipping name Class Subsidiary risk Packing group Labels Hazchem Code	 Not applicable 	
Special precautions for		
Remarks	: Not classified as dang regulations.	gerous 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 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	
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SDS Number	:	60000009464
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



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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



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	:	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	:	
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	able.
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 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



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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

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

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.



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	tion in susceptible persons.
<u>Components:</u>		
glycerol:		
Species	: Rabbit	
Exposure time	: 24 h	
Result	: Mild skin irritation	
Serious eye damage	-	
	on available information.	
Product:		
Remarks	: May irritate eyes.	
Components:		
glycerol:		
Species	: Rabbit	
Result	: Mild eye irritation : 24 h	
Exposure time	. 2411	
Respiratory or skin s	sensitisation	
Skin sensitisation Not classified based of	on available information.	
Respiratory sensitis	ation	
Not classified based of	on available information.	
Product:		
Remarks	: No data available	
Chronic toxicity		
Germ cell mutagenic Not classified based of	:ity on available information.	
Carcinogenicity	on available information.	
Reproductive toxicit		
-	n available information.	
STOT - single expos	ure	
	on available information.	
	osure	
STOT - repeated exp		
STOT - repeated exp Not classified based of	on available information.	
	on available information.	



arQ mRNA-Seq Kit,		
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	vailable
Toxicity to algae/aquatic plants	: Remarks: No data av	vailable
Toxicity to microorganisms	: Remarks: No data av	vailable
Components:		
glycerol:		
Toxicity to fish	: LC0 (Leuciscus idus Exposure time: 48 h	(Golden orfe)): > 250 mg/l
Persistence and degradabi No data available	lity	
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: No data av	vailable
Mobility in soil No data available		
Other adverse effects		
Product:		
Additional ecological information	: No data available	
CTION 13. DISPOSAL CONS	DERATIONS	
Disposal methods		
Contaminated packaging	: Empty containers she 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

Version

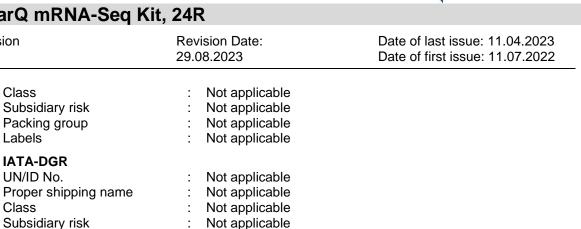
Class

Labels

Class

4.0

sparQ mRNA-Seq Kit, 24R



)uanta<mark>bio</mark>

oubbildidity non	•	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
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
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable
Special precautions for us	ser	
Remarks		Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legisl mixture	ation specific for the substance or
Standard for the Uniform : No poison schedule 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.



Version 4.0 Revision Date: 29.08.2023

Date of last issue: 11.04.2023 Date of first issue: 11.07.2022

SECTION 16. OTHER INFORMATION

Further information		
SDS Number	:	600000011186
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

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.



|--|

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	:	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

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	No data availableNo 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	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

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	Kit , 24R
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4.0	

Date of last issue: 11.04.2023 Date of first issue: 11.07.2022

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

Proper shipping name	:	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	 Not applicable Not applicable Not applicable Not applicable 	
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 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	:	60000011187
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



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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	:	
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	able.
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 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 Skin and body protection	 Safety glasses 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-	: 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

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

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.



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	tion in susceptible persons.
<u>Components:</u>		
glycerol:		
Species	: Rabbit	
Exposure time	: 24 h	
Result	: Mild skin irritation	
Serious eye damage	•	
	on available information.	
Product:		
Remarks	: May irritate eyes.	
Components:		
glycerol:		
Species	: Rabbit	
Result	: Mild eye irritation : 24 h	
Exposure time	. 2411	
Respiratory or skin s	sensitisation	
Skin sensitisation Not classified based of	on available information.	
Respiratory sensitis	ation	
Not classified based of	on available information.	
Product:		
Remarks	: No data available	
Chronic toxicity		
Germ cell mutagenic Not classified based of	:ity on available information.	
Carcinogenicity	on available information.	
Reproductive toxicit		
-	n available information.	
STOT - single expos	ure	
	on available information.	
	osure	
STOT - repeated exp		
STOT - repeated exp Not classified based of	on available information.	
	on available information.	



arQ mRNA-Seq Kit,		.
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 degradabi	lity	
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: No data av	railable
Mobility in soil No data available		
Other adverse effects		
Product:		
Additional ecological information	: No data available	
CTION 13. DISPOSAL CONS	DERATIONS	
Disposal methods		
Contaminated packaging	: Empty containers sho handling site for recy	ould be taken to an approved waste cling or disposal.

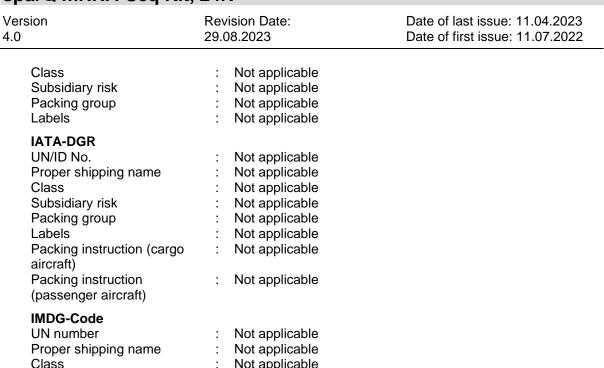
International Regulations

UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable

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sparQ mRNA-Seq Kit, 24R



vantabio

			-
Proper shipping name	: Not applicable	ot applicabl	е
Class	: Not applicable	ot applicabl	е
Subsidiary risk	: Not applicable	ot applicabl	е
Packing group	: Not applicable	ot applicabl	е
Labels	: Not applicable	ot applicabl	е
EmS Code	: Not applicable	ot applicabl	е
Marine pollutant	: Not applicable	ot applicabl	е

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

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/leg mixture	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.



Version 4.0 Revision Date: 29.08.2023

Date of last issue: 11.04.2023 Date of first issue: 11.07.2022

SECTION 16. OTHER INFORMATION

Further information		
SDS Number	:	600000011188
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	:	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

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	No data availableNo 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	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

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:

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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

....

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	 Not applicable Not applicable Not applicable Not applicable 	
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	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	:	60000011189
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 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

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AU / EN



)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

Recommended use	:	Laborator	chemicals
Recommended use		Laboratory	/ chemic

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 wa	wed 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	No data availableNo 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	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

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

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Subsidiary risk Packing group Labels Hazchem Code	 Not applicable Not applicable Not applicable Not applicable 	
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
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.

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sparQ mRNA-Seq Kit, 24R



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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

GHS Classification 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	:	Prevention: 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		

Components		
Chemical name	CAS-No.	Concentration (% w/w)
tetramethylammonium bromide	64-20-0	>= 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	:	Immediately flush eye(s) with plenty of water.
		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.
		Never give anything by mouth to an unconscious person.
Most important symptoms		No information available.
and effects, both acute and	•	Harmful if swallowed.
delayed		Causes skin irritation.
		Causes serious eye irritation.
Notes to physician	:	No information available.
1 7 5 5 5		

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.
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 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,



spary mrna-seq kit, 24r				
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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	ORAGE			
Advice on protection against fire and explosion	: Normal measure	es for preventive fire protection.		
Advice on safe handling	For personal pro Smoking, eating application area	ith skin and eyes. otection see section 8. and drinking should be prohibited in the		
Hygiene measures	: Keep away from Wash hands be Ensure adequat Avoid contact w	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		tightly closed in a dry and well-ventilated		

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

Further information on

storage stability

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	r : 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



sparQ mRNA-Seq Kit	, 24R	
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Reactivity Chemical stability Possibility of hazardous reactions	 No decomposition Stable under recon Hazardous decomp conditions. 	if stored and applied as directed. if stored and applied as directed. nmended storage conditions. position products formed under fire kidizing agents, and acidic or alkaline
Conditions to avoid Incompatible materials Hazardous decomposition products	No data availableNo data availableNo decomposition	if stored and applied as directed.
SECTION 11. TOXICOLOGICA	L INFORMATION	
Acute toxicity Harmful if swallowed.		
Product:		
Acute oral toxicity	: Remarks: No data a	available
Acute inhalation toxicity	: Remarks: No data a	available
Acute dermal toxicity	: Remarks: No data a	available
Components:		
tetramethylammonium br		
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 Causes serious eye irritatio		
<u>Product:</u> Remarks	: May cause irreversi	ble eye damage.
Respiratory or skin sensi	tisation	
Skin sensitisation Not classified based on ava	ailable information.	
Respiratory sensitisation Not classified based on available		
Product:		

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 degradabil	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

UNR.	TDG
------	-----

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

Packing group:Not applicableLabels:Not applicableEmS 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



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Subsidiary risk Packing group Labels Hazchem Code	 Not applicable Not applicable Not applicable Not applicable 	
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

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AU / EN



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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Suspension Buff	er
Manufacturer or supplier's de	S	
Company	Quantabio, LLC. 100 Cummings C Suite 407J Beverly, MA 0191 USA	
Telephone	+ 1 888 959 5165	5
Responsible Department E-mail address Responsible/issuing person Emergency telephone number	customer.service compliance@qua CHEMTREC: +1 CHEMTREC: +(6	703-527-3887

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	:	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



Version 4.0	Revision Date: 29.08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022
Partition coefficient: n- octanol/water Auto-ignition temperature	No data availableNo 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	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

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:

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Version	
4.0	

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



	•	
Version 4.0	Revision Date: 29.08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022
Mobility in soil No data available		
Other adverse effects		
Product: Additional ecological information	: No data available	
SECTION 13. DISPOSAL CONSIDERATIONS		
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

2

International Regulations

Contaminated packaging

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

- ADG UN number
- : Not applicable



Version 4.0	Revision Date: 29.08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022
Proper shipping name Class Subsidiary risk Packing group Labels Hazchem Code	 Not applicable 	
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 nu	mber 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



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

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



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	: Wash Buffer	
Manufacturer or supplier's d	tails	
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@quantabi : compliance@quantabio.com : CHEMTREC: +1 703-527-38 CHEMTREC: +(61)-2903729 	า 887

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	:	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



Version 4.0	Revision Date: 29.08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022
Partition coefficient: n- octanol/water Auto-ignition temperature	No data availableNo 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	 No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No data available No data available No decomposition if stored and applied as directed.

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:

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4.0	

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



Version 4.0		

Revision Date: 29.08.2023

Date of last issue: 11.04.2023 Date of first issue: 11.07.2022

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		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	:	Not applicable
(passenger aircraft)		
IMDG-Code		
UN number	:	Not applicable
Proper shipping name	:	Not applicable

Proper shipping name	: 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



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Regulations.

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Subsidiary risk Packing group Labels Hazchem Code	 Not applicable Not applicable Not applicable Not applicable 	
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	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	:	600000011617
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 Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National



Version	Revision Date:	Date of last issue: 11.04.2023
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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	:	mRNA Frag Prime 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
	. Laboratory cricinicais

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		vision Date: 08.2023	Date of last issue: 11.04.2023 Date of first issue: 11.07.2022	
If swallowed	:	Rinse mouth with water.	tain immediate medical attention. th to an unconscious person.	
Most important symptoms and effects, both acute and delayed	:	No information available.		
Notes to physician	:	No information available.		
SECTION 5. FIREFIGHTING MEASURES				
Suitable extinguishing media	a :	Use extinguishing measures	s that are appropriate to local	

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



Version 4.0	Revision Date: 29.08.2023		Date of last issue: 11.04.2023 Date of first issue: 11.07.2022
Solubility in other solvent	s : I	No data available	
Partition coefficient: n- octanol/water	: 1	No data available	
Auto-ignition temperature	: 1	No data available	
Decomposition temperature	: 1	No data available	
Viscosity Viscosity, dynamic	: 1	No data available	
Viscosity, kinematic	: 1	No data available	
Explosive properties	: 1	No data available	
Oxidizing properties	: 1	No data available	

SECTION 10. STABILITY AND REACTIVITY

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

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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Version	
4.0	

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 : Rema

Remarks: No data available



Version		
4.0		

Revision Date: 29.08.2023

Date of last issue: 11.04.2023 Date of first issue: 11.07.2022

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		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

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



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Regulations.

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Subsidiary risk Packing group Labels Hazchem Code	 Not applicable Not applicable Not applicable Not applicable 	
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	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

Recommended use of the chemical and restrictions on use

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	:	If unconscious, place in recovery position and seek medical 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 cleaning up	p acid binder, universa	osorbent material (e.g. sand, silica gel, al binder, sawdust). sed containers for disposal.
SECTION 7. HANDLING AND ST	TORAGE	
Advice on protection against fire and explosion	t : Normal measures fo	r preventive fire protection.
Advice on safe handling	Avoid contact with sk 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 food Wash hands before I	breaks and at the end of workday. ntilation, especially in confined areas. le skin and the eyes.
Conditions for safe storage		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

:	liquid
:	light cream
:	odourless
:	No data available
:	7.5
:	No data available
:	No data available
:	does not flash
:	No data available
:	1.10 g/cm3
:	No data available
:	soluble
:	No data available
:	not determined
:	No data available
:	No data available
:	7.741 mm2/s (20 °C) Method: DIN 51562
:	Not applicable
:	No data available



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SECTION 10. STABILITY AND REACTIVITY

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

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

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Additional ecological information	:	No data available
Other adverse effects Product:		
Mobility in soil No data available		
Product: Bioaccumulation	:	Remarks: No data available
Persistence and degradabi No data available Bioaccumulative potential	lity	
Toxicity to microorganisms		Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to fish	•	Remarks: No data available

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

SAFETY DATA SHEET



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sparQ mRNA-Seq Kit, 24R

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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	 Not applicable 	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)	 Not applicable 	le le le le le
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels	 Not applicable 	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

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

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Full text of other abbreviations

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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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