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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PerfeCTa Multiplex qPCR ToughMix Low ROX (5X)

Manufacturer or supplier's details

Company : Quanta BioSciences, Inc.

202 Perry Parkway, Suite 1 Gaithersburg, MD 20877

USA

Telephone : +1 301-956-1670

E-mail address

Responsible/issuing person

Emergency telephone

number

: CHEMTREC: +1 703-527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards which do not result in classification

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
propane-1,2-diol	57-55-6	>= 10 - < 30
glycerol	56-81-5	< 10
ammonium chloride	12125-02-9	< 10



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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

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 and effects, both acute and

delayed

Notes to physician

: No information available.

: No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific hazards during

firefighting

: 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.

Methods and materials for : Keep in suitable, closed containers for disposal.



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containment and cleaning up

SECTION 7. HANDLING AND STORAGE

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis	
propane-1,2-diol	57-55-6	TWA (particulate)	10 mg/m3	AU OEL	
		TWA (Total	150 ppm	AU OEL	
		(vapour and	474 mg/m3		
		particles))	_		
glycerol	56-81-5	TWA (Mist)	10 mg/m3	AU OEL	
	Further information: This value is for inhalable dust containing no asbestos and < 1% crystalline silica				
ammonium chloride	12125-02-9	TWA	10 mg/m3	AU OEL	
		(Fumes)			
		STEL (Fumes)	20 mg/m3	AU OEL	

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



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour No data available Odour No data available Odour Threshold No data available pΗ No data available Melting point/range No data available Boiling point/boiling range No data available Flash point No data available No data available Evaporation rate Burning rate No data available No data available Upper explosion limit No data available Lower explosion limit 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 Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Thermal decomposition : 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 : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.



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Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Hazardous decomposition products formed under fire

conditions.

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : No data available

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Components:

propane-1,2-diol:

Acute oral toxicity : LD50 Oral Rat: 20,000 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 20,800 mg/kg

glycerol:

Acute oral toxicity : LD50 Oral Rat: 12,000 mg/kg

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

ammonium chloride:

Acute oral toxicity : LD50 Oral Rat: 1,650 mg/kg

Skin corrosion/irritation

Product:

May cause skin irritation in susceptible persons.

Components:

glycerol:

Species: Rabbit

Exposure time: 24 hours



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Result: Mild skin irritation

Serious eye damage/eye irritation

Product:

Remarks:

May irritate eyes.

Components:

glycerol:

Species: Rabbit

Exposure time: 24 hours Result: Mild eye irritation

Respiratory or skin sensitisation

No data available

Chronic toxicity

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : No data available

Toxicity to algae : No data available



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: No data available Toxicity to bacteria

Components:

propane-1,2-diol:

: NOEC (Pimephales promelas (fathead minnow)): 52,930 mg/l Toxicity to fish

Exposure time: 96 hours

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 hours

glycerol:

: LC0 (Leuciscus idus (Golden orfe)): > 250 mg/l Toxicity to fish

Exposure time: 48 hours

ammonium chloride:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 209 mg/l

Exposure time: 96 hours

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 161 mg/l

Exposure time: 48 hours

Persistence and degradability

No data available

Bioaccumulative potential

Product:

Bioaccumulation : No data available

Partition coefficient: n-

octanol/water

: No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS



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Disposal methods

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

No data available

National Regulations

ADG

Not regulated as a dangerous good

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

Prohibition/Licensing Requirements : There is no applicable prohibition or

notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory

legislation.

SECTION 16. OTHER INFORMATION

Date format : dd/mm/yyyy

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



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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.