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SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product Identifier: **qScript™ XLT One-Step RT-qPCR ToughMix®**
Product Code(s): Catalog numbers: 95132-100; 95132-500
Part Numbers: 84225

1.2 General Use: Laboratory reagent
Product Description
For Research Use Only, Not for Use in Diagnostic Procedures

1.3 Manufacturer/Supplier
QUANTA BIOSCIENCES INC.
202 PERRY PKWY., SUITE 1
GAITHERSBURG, MD 20877
USA
Phone: +1 (301) 956-1670
FAX: +1 (301) 956-1681
Email: technical.support@quantabio.com
www.quantabio.com

1.4 Emergency Telephone:
Quanta BioSciences: +1 (240) 454-8912 (09:00 to 17:00 EST)
Or contact your local distributor for Quanta BioSciences products.

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
This product has been classified in accordance with Directive 1999/45/EC and does not meet the criteria for classification.

2.2 Label elements
Labelling in accordance with Directive 1999/45/EC is not required.

2.3 Other hazards
None known.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	EINECS # / EC #	Chemical Name	Percentage (wt/wt)	Classifications (EU DSD / EU CLP)*	
1185-53-1	214-684-5	2-amino-2-(hydroxymethyl)propane -1,3-diol hydrochloride	0.2 – 2	Xi; R36/37/38	
				Eye Irrit. 2 Skin Irrit. 2 STOT SE 3	H319 H315 H335
56-81-5	200-289-5	Glycerol	0.5 – 5	Substance with community workplace exposure limits	

See Section 16 for full text of risk phrases and hazard statements.
**DSD = Directive 67/548/EEC – Dangerous Substances Directive*
**CLP = Regulation 1272/2008 – Classification, Labelling, and Packaging*

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SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures:

EYES:	Immediately flush with contaminated eye(s) with lukewarm, gently flowing water for at least 5 minutes, while holding the eyelids(s) open. Remove any contact lenses and continue rinsing. Get medical attention if irritation persists after washing.
SKIN:	Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. If irritation develops and persists, get medical attention.
INGESTION:	Rinse mouth thoroughly with water. If large amounts have been ingested, give 2 to 8 ounces of water. Get medical attention.
INHALATION:	If symptoms are experienced, remove source of contamination or move victim to fresh air. Obtain medical advice.

4.2 Most important symptoms and effects, both acute and delayed:

EYES:	May cause eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.
SKIN:	May cause skin irritation.
INGESTION:	May be harmful if swallowed in large quantities.
INHALATION:	May cause irritation to the respiratory system if liquid is splashed or aerosolized.

4.3 Indication of any immediate medical attention and special treatment needed:
None

SECTION 5 – FIREFIGHTING MEASURES

5.1	Extinguishing media	Use media suitable for surrounding fire.
5.2	Special hazards arising from the substance or mixture	None
5.3	Advice for firefighters	None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	Wear gloves and chemical eye goggles or glasses with side shields.
6.2	Environmental precautions	Do not discard in drains or sewer systems.
6.3	Methods and material for containment and cleaning up	Use absorbent suitable to the size and location of the spill. Discard absorbent with hazardous waste if applicable with local regulations.
6.4	Reference to other sections	Review Sections 2, 3, and 8

SECTION 7 – HANDLING AND STORAGE

7.1	Precautions for safe handling	Avoid contact with skin. Wash hands thoroughly after handling. Wear protective gloves and eye protection. Avoid breathing mist, vapours or aerosols. Use only in a well-ventilated area.

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7.2	Conditions for safe storage, including any incompatibilities	Store at -20°C in closed original container. Keep away from food, drink and animal feeding stuffs.
7.3	Specific end use(s)	Not available

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

8.1.1 Occupational exposure limits:

Chemical	Limit value – 8 hours		Limit value – Short term	
	ppm	mg/m^3	ppm	mg/m^3
Glycerol:				
Austria	-	-	-	-
Belgium	-	10	-	-
Denmark	-	-	-	-
European Union	-	-	-	-
France	-	10	-	-
Germany	-	10*	-	100*
Hungary	-	-	-	-
Italy	-	-	-	-
Poland	-	10	-	-
Spain	-	10	-	-
Sweden	-	-	-	-
The Netherlands	-	-	-	-
United Kingdom	-	10	-	-

** inhalable aerosol*

8.1.2 Currently recommended monitoring procedures:
Not determined

8.1.3 Exposure guidelines for air contaminants, if any:
Not determined

8.1.4 DNELs and PNECs for exposure scenarios:
Not determined

8.1.5 Control banding for risk management:
Not determined

8.2 Exposure controls:

Engineering controls:	Use in well-ventilated area with mechanical exhaust when operations cause vapour or aerosol formation.
Respiratory protection:	No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limits (OEL).
Skin & body protection:	Use protective gloves made of: butyl rubber. The most suitable glove must be chosen in consultation with the gloves suppler, who can inform about the breakthrough time of the glove material. Change out of clothes that become wet.
Eye protection:	Wear approved chemical safety goggles or safety glasses with

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	side shields where exposure to vapour or aerosol or contact with eyes is reasonably probable. Provide eye wash station.
Thermal hazards:	None
Environmental exposure controls:	None

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:	Blue liquid
Odour:	None
Odour threshold:	Not applicable
pH:	8.7
Melting/freezing point	Not measured
Initial boiling point & boiling range:	Not measured
Flash point:	Does not flash
Evaporation rate:	Not measured
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	Not measured
Vapour density:	Not measured
Relative density:	Not measured
Solubility(ies)	Complete in water
Partition coefficient:	Not measured
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not applicable
Viscosity:	Not measured
Explosive properties:	None
Oxidising properties:	None
Other:	None

9.2 Other information:
None

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity:	Stable
10.2 Chemicals stability:	Stable
10.3 Possibility of hazardous reactions:	Will not occur
10.4 Conditions to avoid:	Static discharges, hot sources, ignition sources

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10.5 Incompatible materials:	Avoid accidental contact with strong oxidizers (e.g., nitric acid)
10.6 Hazardous decomposition products:	In case of fire, formation of CO_x

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Mixture:
The acute effects of this product have not been tested. Data on individual components are tabulated below:

Chemical Name	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
Tris(hydroxymethyl) aminomethane	5900 mg/kg (rat)	-	-
Glycerol	12600 mg/kg (rat)	>1000 mg/kg (rabbit)	>570 mg/m^3 (rat)

Category	Available data
Acute toxicity:	May be harmful if swallowed in large quantities. May cause irritation to the respiratory system if liquid is splashed or aerosolized.
Skin/eye irritation:	May cause skin irritation. May cause eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.
Corrosivity:	None
Respiratory or skin sensitisation:	Not expected
Germ cell mutagenicity:	Insufficient information for classification.
Carcinogenicity:	Not expected. None of the components at reportable levels have been designated as potential carcinogens by IARC (Group 1, 2A or 2B) or other foreign national agencies.
Reproductive toxicity:	Not expected if occupational exposure levels are observed.
STOT-SE:	May cause respiratory irritation.
STOT-RE:	Not expected if occupational exposure levels are observed.
Aspiration hazard:	Not expected

ROUTE OF ENTRY: Skin and/or eye contact. Less likely routes are inhalation or ingestion.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity:	Does not meet criteria for acute ecotoxicity based on available information.
12.2 Persistence and degradability:	Not determined. Insufficient information
12.3 Bioaccumulative potential:	Not determined. Insufficient information
12.4 Mobility in soil:	Not determined. Insufficient information
12.5 Results of PBT and vPvB assessment:	Does not contain any ingredients that are assessed as PBT or vPvB.
12.6 Other adverse effects:	None known

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SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Discard contents in compliance with local regulations.

SECTION 14 – TRANSPORT INFORMATION

ARD/RID Not regulated

Proper Shipping Name
Class
Classification Code
UN Number
Packing Group
Environmental hazard

IMDG Not regulated

Proper Shipping Name
Class
EmS
UN Number
Packing Group
Flashpoint

ICAO/IATA Not regulated

Proper Shipping Name
Class
Packing Instruction
UN Number
Packing Group

Special precautions for user: None known

SECTION 15 – REGULATORY INFORMATION

15.1 Safety health and environmental regulations:

Consult the most current list of restrictions for details. The following chemicals are indicated in Annex XII of Regulation 1907/2007.
None

15.2 Chemical Safety Assessment:

Has not been done.

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SECTION 16 – OTHER INFORMATION

SDS Status: Original

List of R-phrases in Section 3

R36/37/38	Irritating to eyes, respiratory system and skin.

List of Hazard Statements in Section 3

H315	*Causes skin irritation*
H319	*Causes serious eye irritation*
H335	*May cause respiratory irritation*

Methods used for evaluation: For CLP, other methods as described in each section of Parts 3 and 4 of Annex I

Classification in accordance with Regulation (EU) 1272/2008 in advance of June 1, 2015 required date:
Does not meet criteria for classification.

KEY: DNEL = Derived No-Effect Level; IARC = International Agency for Research of Cancer; WEL = Workplace Exposure Limits; OEL = Occupational Exposure Limits; PBT = Persistent, Bioaccumulative, Toxic; PNEC = Predicted No-Effect Concentration; TWA = Time Weighted Average (8 hours); STEL = Short Term Exposure Limit (15 minutes); ppm = parts per million; vPvB = very Persistent, very Bioaccumulative

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