

SAFETY DATA SHEET

According to EC Directive 1907/2006/EC

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

- 1.1 Product Identifier: qScript™ XLT cDNA SuperMix**
Product Code(s): Catalog numbers: 95161-025, 95161-100, 95161-500
- 1.2 General Use: Laboratory reagent**
Product Description
For Research Use Only, Not for Use in Diagnostic Procedures
- 1.3 Manufacturer/Supplier**
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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**
Classification (REGULATION (EC) No 1272/2008).

Not a hazardous substance or mixture

Classification (67/548/EEC, 1999/45/EC)
Not a hazardous substance or mixture.
- 2.2 Label elements**
Labelling (REGULATION (EC) No 1272/2008).
Not a hazardous substance or mixture

Additional Labelling:
EUH210 Safety data sheet available on request.
- 2.3 Other hazards**
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

**3.2 Mixtures
Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Ammonium chloride	12125-02-9 235-186-4	Xn; R22 Xi; R36	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Chronic2; H411	>= 1 - < 10
WEL substance:				
glycerol	56-81-5 200-289-5			>= 20 - < 50

SECTION 4 – FIRST AID MEASURES

4.1 Description of 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.

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

Symptoms: No information available.

4.3 Indication of any immediate medical attention and special treatment needed:

Treatment: No information available.

SECTION 5 – FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Exposure to decomposition products may be a hazard to

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Hazardous combustion products	health. No hazardous combustion products are known
5.3 Advice for firefighters	
Special protective equipment for firefighters	Wear self contained breathing apparatus for fire fighting if necessary.
Further information	In the event of fire and/or explosion do not breathe fumes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
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6.2 Environmental precautions

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	Keep in suitable, closed containers for disposal..
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6.4 Reference to other sections

For personal protection see section 8.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Advice on protection against fire and explosion	Normal measures for preventive fire protection.
Hygiene measures	Keep away from food and drink. When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Advice on common storage	Do not store near acids.
Other data	No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s)	Laboratory chemicals.
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SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
glycerol	56-81-5	VME (aerosol)	10 mg/m3	FR VLE
Further information	Indicative exposure limits			
ammonium chloride	12125-02-9	VME (Fumes)	10 mg/m3	FR VLE
Further information	Indicative exposure limits			

8.2 Exposure controls:

Personal protective equipment

Eye protection:

Safety glasses.

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)

Gloves.

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

9.1 Information on basic physical and chemical properties:

Appearance:	liquid
Colour	clear
Odour:	no data available
Odour threshold:	no data available
pH:	8,3, (22°C)
Melting/freezing point	no data available
Initial boiling point & boiling range:	no data available
Flash point:	no data available
Evaporation rate:	no data available

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Flammability (solid, gas):	no data available
Upper/lower flammability or explosive limits:	no data available
Vapour pressure:	no data available
Vapour density:	no data available
Relative density:	no data available
Solubility(ies)	
Water solubility	Completely soluble
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
Oxidising properties:	no data available

9.2 Other information:

no data available

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity:

No decomposition if stored and applied as directed.

10.2 Chemicals stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	Stable under recommended storage conditions Hazardous decomposition products formed under fire conditions
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10.4 Conditions to avoid

Conditions to avoid	no data available
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10.5 Incompatible materials

Materials to avoid	no data available
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10.6 Hazardous decomposition products

Hazardous decomposition products no decomposition if stored and applied as directed

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity no data available

Acute inhalation toxicity no data available

Acute dermal toxicity no data available

Components:

ammonium chloride:

Acute oral toxicity LD50 Oral rat: 1.650 mg/kg

glycerol:

Acute ioral toxicity LD50 Oral rat: 12.000 mg/kg

Acute dermal toxicity LD50 Dermal rabbit: 10.000 mg/kg

Skin corrosion/irritation

Product:

Remarks:
May irritate eyes

Components:

glycerol:

Species: rabbit
Exposure time: 24 hours
Result: Mild eye irritation

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT – single exposure

no data available

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STOT – repeated exposure

no data available

Aspiration toxicity

no data available

Further information

no data available

SECTION 12 – EXOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish no data available

Toxicity to algae no data available

Toxicity to bacteria no data available

Components:

ammonium chloride:

Toxicity to fish LC50 (Ceriodaphnia (water flea)): 209 mg/l
Exposure time: 96 hours
LC50 (Oncorhynchus mykiss (rainbow trout)): 3,98 mg/l
Exposure time: 96 hours

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): 161 mg/l
Exposure time: 48 hours

glycerol:

Toxicity to fish LC0 (Leuciscus idus (Golden orfe)): > 250 mg/l
Exposure time: 48 hours

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation no data available

Partition coefficient: n-octanol/water no data available

12.4 Mobility in soil

no data available

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12.5 Results of PBT and vPvB assessment

Product:

Assessment

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Additional ecological information

no data available

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Product:

Contaminated packaging

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

SECTION 14 – TRANSPORT INFORMATION

14.1 UN number

Not regulated as a dangerous good

14.2 Proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks

Not classified as dangerous in the meaning of transport regulations

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

Not applicable for product as supplied.

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SECTION 15 – REGULATORY INFORMATION

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	ethoxylated nonylphenol
Regulation (EC) No 689/2008 of the European Parliament and the Council concerning the export and import of dangerous chemicals	ethoxylated nonylphenol
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer - Annex I Controlled substances covered	not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	not applicable
Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances	not applicable
Occupational Illnesses (R- 461-3, France)	67

15.2 Chemical Safety Assessment
no data available

SECTION 16 – OTHER INFORMATION

SDS Status: Version 1.0
Changes

Replaces version:

Full text of R-phrases

R22	Harmful if swallowed
R36	Irritating to eyes

Full text of H-Statements

H302	Harmful if swallowed
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects

Full text of abbreviations

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation

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