**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

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**Ultraplex 1-Step ToughMix**

Version 1.0  
Revision Date 09.07.2015  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

1.1 **Product identifier**

   Trade name : Ultraplex 1-Step ToughMix

1.2 **Relevant identified uses of the substance or mixture and uses advised against**

   Use of the Substance/Mixture : Laboratory chemicals

1.3 **Details of the supplier of the safety data sheet**

   Company : Quanta BioSciences, Inc.  
   202 Perry Parkway, Suite 1  
   Gaithersburg, MD 20877  
   USA  
   Telephone : +1 301-956-1670  
   E-mail address :  
   Responsible/issuing person :  

1.4 **Emergency telephone number**

   CHEMTREC : +1 703-527-3887

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**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.

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.
SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EC-No.</td>
</tr>
<tr>
<td></td>
<td>Registration number</td>
</tr>
<tr>
<td></td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td></td>
<td>Classification (REGULATION (EC) No 1272/2008)</td>
</tr>
<tr>
<td></td>
<td>Concentration (%)</td>
</tr>
<tr>
<td>glycerol</td>
<td>56-81-5</td>
</tr>
<tr>
<td></td>
<td>200-289-5</td>
</tr>
<tr>
<td></td>
<td>&gt;= 20 &lt; 40</td>
</tr>
<tr>
<td>propane-1,2-diol</td>
<td>57-55-6</td>
</tr>
<tr>
<td></td>
<td>200-338-0</td>
</tr>
<tr>
<td></td>
<td>&gt;= 1 &lt; 10</td>
</tr>
</tbody>
</table>

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 health.
   Hazardous combustion products: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters
   Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting 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.

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.

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

Other data: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s): Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>glycerol</td>
<td>56-81-5</td>
<td>TWA (Mist)</td>
<td>10 mg/m3</td>
<td>GB EH40</td>
</tr>
<tr>
<td>propane-1,2-diol</td>
<td>57-55-6</td>
<td>TWA (particles)</td>
<td>10 mg/m3</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

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).

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**: No data available
- **Odour**: No data available
- **Odour Threshold**: No data available
- **pH**: 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**: No data available
- **Lower explosion 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
  - **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
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 Chemical 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.

10.4 Conditions to avoid
Conditions to avoid : No data available

10.5 Incompatible materials
Materials to avoid : No data available

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
Not classified based on available information.

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

propane-1,2-diol:
Acute oral toxicity : LD50 Oral (Rat): 20,000 mg/kg
Acute dermal toxicity : LD50 Dermal (Rabbit): 20,800 mg/kg

Skin corrosion/irritation
Not classified based on available information.

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

Components:
glycerol:
Species: Rabbit
Exposure time: 24 hours
Result: Mild skin irritation

Serious eye damage/eye irritation
Not classified based on available information.

Product:
Remarks:
May irritate eyes.

Components:
glycerol:
Species: Rabbit
Exposure time: 24 hours
Result: Mild eye irritation

Respiratory or skin sensitisation
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

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
No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:
Toxicity to fish : No data available
Toxicity to algae : No data available
Toxicity to bacteria : No data available

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

propane-1,2-diol:
Toxicity to fish : NOEC (Pimephales promelas (fathead minnow)): 52,930 mg/l
Exposure time: 96 hours
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 hours

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Product:
Bioaccumulation : No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment

Product:
Assessment : 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
Remarks: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods
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 UN proper shipping name
Not regulated as a dangerous good

14.3 Transport hazard class(es)
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
For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable
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15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

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.