

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product code** LC6876  
**Product name** Novex® TBE-Urea Sample Buffer (2X)

### Company/Undertaking Identification

INVITROGEN CORPORATON  
 1600 FARADAY AVENUE  
 PO BOX 6482  
 CARLSBAD, CA 92008  
 760-603-7200

INVITROGEN CORPORATION  
 2270 INDUSTRIAL STREET  
 BURLINGTON, ONT  
 CANADA L7P 1A1  
 800-263-6236

GIBCO PRODUCTS  
 INVITROGEN CORPORATION  
 3175 STALEY ROAD P.O. BOX 68  
 GRAND ISLAND, NY 14072  
 716-774-6700

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous/Non-hazardous Components

Chemical Name	CAS-No	Weight %
.alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl, polymer with (chloromethyl)oxirane	26873-85-8	10-30
Urea	57-13-6	30-60

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

Avoid contact with skin, eyes and clothing  
 May cause skin irritation and/or dermatitis  
 Irritating to eyes  
 May be harmful if swallowed

**Form**  
 Liquid

### 3. HAZARDS IDENTIFICATION

#### Principle Routes of Exposure/ Potential Health effects

Eyes	Irritating to eyes.
Skin	Irritating to skin and mucous membranes.
Inhalation	No information available
Ingestion	May be harmful if swallowed.

#### Specific effects

Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available
Sensitization	No information available

#### Target Organ Effects

Kidney.

#### HMIS

Health	No Information Available
Flammability	No Information Available
Reactivity	No Information Available

### 4. FIRST AID MEASURES

Skin contact	Wash off immediately with plenty of water
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Ingestion	Never give anything by mouth to an unconscious person
Inhalation	Move to fresh air
Notes to physician	Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Dry chemical
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment
Methods for cleaning up	Soak up with inert absorbent material

### 7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes.
Storage	Keep tightly closed in a dry and cool place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Occupational exposure controls

#### Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
.alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl, polymer with (chloromethyl)oxirane	-	-	-	-
Urea	-	-	-	-

**Engineering measures** Ensure adequate ventilation, especially in confined areas

**Personal protective equipment**

**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment  
**Hand protection** Protective gloves  
**Eye protection** Safety glasses with side-shields  
**Skin and body protection** Lightweight protective clothing  
**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice  
**Environmental exposure controls** Prevent product from entering drains

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**General Information**

**Form** Liquid

**Important Health Safety and Environmental Information**

**Boiling point/range** °C No data available °F No data available  
**Melting point/range** °C No data available °F No data available  
**Flash point** °C No data available °F No data available  
**Autoignition temperature** °C No data available °F No data available  
**Oxidizing properties** No information available  
**Water solubility** No data available

**10. STABILITY AND REACTIVITY**

**Stability** No information available.  
**Materials to avoid** Strong oxidizing agents. sodium hypochlorite.  
**Hazardous decomposition products** Thermal decomposition can lead to release of irritating gases and vapours. Carbon oxides, Nitrogen Oxides.  
**Polymerization** No information available

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
.alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl, polymer with (chloromethyl)oxirane	No data available	No data available	No data available
Urea	8471 mg/kg (Rat)	No data available	No data available

**Principle Routes of Exposure/**

**Potential Health effects**

**Eyes** Irritating to eyes.  
**Skin** Irritating to skin and mucous membranes.  
**Inhalation** No information available  
**Ingestion** May be harmful if swallowed.

**Specific effects**

**Carcinogenic effects** No information available  
**Mutagenic effects** No information available  
**Reproductive toxicity** No information available  
**Sensitization** No information available

**Target Organ Effects** Kidney.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects** No information available.  
**Mobility** No information available.  
**Biodegradation** No information available.  
**Bioaccumulation** No information available.

**13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations

**14. TRANSPORT INFORMATION**

**IATA**

**Proper shipping name** Not classified as dangerous in the meaning of transport regulations  
**Hazard Class** No information available  
**Subsidiary Class** No information available  
**Packing group** No information available  
**UN-No** No information available

**15. REGULATORY INFORMATION**

**International Inventories**

Chemical Name	TSCA	PICCS	ENCS	DSL	NDSL	AICS
.alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl, polymer with (chloromethyl)oxirane	Listed	-	-	-	Listed	-
Urea	Listed	Listed	Listed	Listed	-	Listed

**U.S. Federal Regulations**

**SARA 313**

This product is not regulated by SARA.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contains HAPs.

**U.S. State Regulations**

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
.alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl, polymer with (chloromethyl)oxirane	-	-	-	-	-
Urea	-	-	-	-	-

**California Proposition 65**

This product does not contain chemicals listed under Proposition 65

**WHMIS hazard class:**

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

**16. OTHER INFORMATION**

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

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**End of Safety Data Sheet**