# invitrogen

# **Material Safety Data Sheet**

Revision Date: 07-Jan-2009

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

Product code Product name 15581028 UltraPure™ 10X TBE Buffer

#### **Company/Undertaking Identification**

INVITROGEN CORPORATON 5791 VAN ALLEN WAY PO BOX 6482 CARLSBAD, CA 92008 760-603-7200

INVITROGEN CORPORATION 5250 MAINWAY DRIVE BURLINGTON, ONT CANADA L7L 6A4 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 %
boric acid	10043-35-3	5-10

# **3. HAZARDS IDENTIFICATION**

**Emergency Overview** May cause harm to the unborn child. Possible risk of impaired fertility.

> Form Liquid

Page 1/5

# **3. HAZARDS IDENTIFICATION**

Principle Routes of Exposure/	
Potential Health effects	
Eyes	No information available
Skin	No information available
Inhalation	No information available
Ingestion	No information available
Specific effects	
Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	May impair fertility. May cause harm to the unborn child
Sensitization	No information available

#### Target Organ Effects

Reproductive System.

#### <u>HMIS</u>

Health	1
Flammability	0
Reactivity	0

# **4. FIRST AID MEASURES**

Skin contact Eye contact	Wash off immediately with plenty of water 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 mediaDry chemicalSpecial protective equipment forWear self-contained breathing apparatus and protective suitfirefighters

# **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions Methods for cleaning up Avoid contact with skin, eyes and clothing. Soak up with inert absorbent material.

# 7. HANDLING AND STORAGE

Handling Storage Always wear reccommended Personal Protective Equipment. Keep in properly labelled containers

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Occupational exposure controls

Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
boric acid	-	-	2 mg/m <sup>3</sup> inhalable fraction, listed under borate compounds, inorganic	6 mg/m <sup>3</sup> inhalable fraction, listed under borate compounds, inorganic
Engineering measures	Ensure adec	quate ventilation, especia	ally 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	Prevent product from entering drains.
controls	

# 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 Water solubility	No information available soluble	
water solubility	3010016	

# **10. STABILITY AND REACTIVITY**

Stability	
Materials to avoid	
Hazardous decomposition	
products	
Polymerization	

Stable under normal conditions. Bases. Incompatible with oxidizing agents. No information available

No information available

# **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
boric acid	2660 mg/kg (Rat)	No data available	No data available

# Principle Routes of Exposure/<br/>Potential Health effectsNo information availableEyesNo information availableSkinNo information availableInhalation<br/>IngestionNo information available

Specific effects	
Carcinogenic effects	No information available
Mutagenic effects	No information available

Target Organ Effects

Reproductive System.

# **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**

#### <u>IATA</u>

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
boric acid	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
boric acid	-	-	-	-	-

#### California Proposition 65

This product does not contain chemicals listed under Proposition 65



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