

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code LC2673
Product name NOVEX TRIS-GLYCINE NATIVE SAMPLE BUFFER (2X)

Company/undertaking identification

Life Technologies
5791 Van Allen Way
PO Box 6482
Carlsbad, CA 92008
+1 760 603 7200

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

24 hour Emergency Response: 866-536-0631
301-431-8585
Outside of the U.S. +1-301-431-8585

Country specific Emergency Number (if available):
CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

SECTION 2: Hazards identification

GHS - Classification

Signal Word
Not Hazardous

Health hazards
Not Hazardous

Physical hazards
Not Hazardous

Principle Routes of Exposure
Potential Health Effects
eyes

May cause eye irritation with susceptible persons.

Revision date 11-Mar-2015
Product code LC2673

Product name NOVEX TRIS-GLYCINE NATIVE SAMPLE BUFFER (2X)
Page 1 / 5

Skin May cause skin irritation in susceptible persons.
inhalation May be harmful by inhalation.
Ingestion May be harmful if swallowed.

Specific effects

Carcinogenic effects None
Mutagenic effects None
Reproductive toxicity None
Sensitization None

Target Organ Effects No known effects under normal use conditions

HMIS

| | |
|--------------|---|
| Health | 0 |
| Flammability | 0 |
| Reactivity | 0 |

SECTION 3: Composition/information on ingredients

| Chemical Name | CAS-No | EINECS-No | Weight % |
|---------------|---------|-----------|----------|
| Glycerol | 56-81-5 | - | 15-30 |

The product contains no substances which at their given concentration, are considered to be hazardous to health.

SECTION 4: First aid measures

Skin contact Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.
Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
inhalation Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Notes to Physician Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

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

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for more information.

SECTION 7: Handling and storage

Handling Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

Storage Keep in a dry, cool and well-ventilated place.

SECTION 8: Exposure controls/personal protection

Exposure Limits

We are not aware of any national exposure limit.

| Chemical Name | OSHA PEL | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|---------------|--|--------------------|-----------------|------------------|
| Glycerol | 15 mg/m ³ 5 mg/m ³ | None | None | None |

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Impervious gloves.

Eye protection

Wear safety glasses with side shields (or goggles).

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.

SECTION 9: Physical and chemical properties

General information

| | | |
|--------------------------------------|--------------------------|----------------------|
| Form | Liquid | |
| Appearance | No information available | |
| Odor | No data available | |
| Odor Threshold | No data available | |
| Boiling point / boiling range | °C No data available | °F No data available |
| Melting point / melting 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 | soluble | |
| Viscosity | No data available | |

SECTION 10: Stability and reactivity

Stability Stable under normal conditions.

Revision date 11-Mar-2015
Product code LC2673

Page 3 / 5
Product name NOVEX TRIS-GLYCINE NATIVE SAMPLE BUFFER
(2X)

Materials to avoid No dangerous reaction known under conditions of normal use.
Hazardous decomposition products None under normal use conditions.
polymerization Hazardous polymerization does not occur.

SECTION 11: Toxicological information

Acute Toxicity

Not Hazardous.

| Chemical Name | LD50 (oral, rat/mouse) | LD50 (dermal, rat/rabbit) | LC50 (inhalation, rat/mouse) |
|---------------|------------------------|---------------------------|------------------------------|
| Glycerol | No data available | No data available | >570mg/m ³ (Rat) |

Principle Routes of Exposure

Potential Health Effects

eyes May cause eye irritation with susceptible persons
Skin May cause skin irritation in susceptible persons
inhalation May be harmful by inhalation
Ingestion May be harmful if swallowed

Carcinogenic effects None
Mutagenic effects None
Reproductive toxicity None.
Sensitization None

Target Organ Effects No known effects under normal use conditions

SECTION 12: Ecological information

Ecotoxicity No information available
Mobility No information available
Biodegradation Inherently biodegradable
Bioaccumulation Material does not bioaccumulate

| Chemical Name | Freshwater Algae Data | Water Flea Data | Freshwater Fish Species Data | Microtox Data | log Pow |
|---------------|-----------------------|-----------------|------------------------------|---------------|-------------|
| Glycerol | | | | | logPow-1.76 |

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name No dangerous good in sense of these transport regulations
Hazard Class None
Subsidiary class None
Packing group None

UN-No None

SECTION 15: Regulatory information

| Component | TSCA |
|-------------------------------|--------|
| Glycerol 56-81-5 (15-30) | Listed |

US 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.

US State Regulations

| Chemical Name | Massachusetts - RTK | New Jersey - RTK | Pennsylvania - RTK | Illinois - RTK | Rhode Island - RTK |
|---------------|---------------------|------------------|--------------------|----------------|--------------------|
| Glycerol | Listed | - | Listed | - | Listed |

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other information

Reason for revision SDS sections updated.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

End of Safety Data Sheet

Revision date 11-Mar-2015
Product code LC2673

Page 5 / 5
Product name NOVEX TRIS-GLYCINE NATIVE SAMPLE BUFFER (2X)