



**PhyNexus, Inc.**

**BUFFER G**  
**PROTEIN A/G NEUTRALIZATION BUFFER MSDS**

**MATERIAL SAFETY DATA SHEET**

PhyNexus, Inc.  
3670 Charter Park Drive, Suite A  
San Jose, CA 95136  
United States

Preparation Date:  
Printed Date: Oct 1, 2012  
Technical Phone: 408-267-7214

**SECTION 1. CHEMICAL IDENTIFICATION**

NAME: BUFFER G, PROTEIN A/G NEUTRALIZATION BUFFER  
SUBSTANCE: TRIS-HCl BUFFERED SOLUTION, pH 9.0  
CAS#: None

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

NAME: TRIS BUFFER, pH 9.0  
CAS#: 77-86-1 2-AMINO-2-HYDROXYMETHYLPROPANE-1, 3-DIOL HYDROGEN CHLORIDE  
MF:  $(\text{HOCH}_2)_3\text{CNH}_2$ , HCl  
EC Number : Not Assigned  
SYNONYMS : Trishydroxymethylaminomethane HCl buffer, pH 9.0, TRIS, Tris, Tris base, Tris buffer,  
  
CAS#: 7732-18-5 WATER 95%

**SECTION 3. HAZARDS IDENTIFICATION**

NFPA Ratings (SCALE 0-4): HEALTH=0-1 FIRE=0 REACTIVITY=0  
NON HAZARDOUS SOLUTION  
CARCINOGEN STATUS:  
-OSHA: No.  
-NTP: No.  
-IARC: No.

**SECTION 4. FIRST-AID MEASURES**

SEEK MEDICAL ASSISTANCE FOR ANY OVEREXPOSURE.  
SKIN: Wash thoroughly with soap and water.  
EYES: Immediately flush thoroughly with water for at least 15 minutes.  
INGESTION: If conscious drink copious amounts of water. Never give anything by mouth to an unconscious person. Obtain medical attention.



**BUFFER G**  
**PROTEIN A/G NEUTRALIZATION BUFFER MSDS**

**SECTION 5. FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: Use extinguishing agents appropriate for surrounding fire.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None, not a fire hazard.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Absorb material and collect in an appropriate container for disposal. Wash spill site with soapy water.

**SECTION 7. HANDLING AND STORAGE**

Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances. Store between 4-20°C, do not freeze.

**SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

EXPOSURE LIMITS: No occupational exposure limits established.

CHEMICAL SAFETY GOGGLES.

SAFETY SHOWER AND EYE BATH.

COMPATIBLE CHEMICAL-RESISTANT GLOVES (PVC, RUBBER OR NITRILE).

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

KEEP TIGHTLY CLOSED.

STORE BETWEEN 4-20°C.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

SPECIFIC GRAVITY: ~1.00mL/g

APPEARANCE: Colorless liquid.

ODOR: Odorless.

BOILING POINT: ~100°C.

pH: 9.0

WATER SOLUBILITY: Water soluble.

**SECTION 10. STABILITY AND REACTIVITY**

REACTIVITY: Stable at normal temperatures and pressure.

INCOMPATIBILITIES: Strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide.



**BUFFER G**  
**PROTEIN A/G NEUTRALIZATION BUFFER MSDS**

**SECTION 11. TOXICOLOGICAL INFORMATION**

INHALATION: No Data Available.  
SKIN CONTACT: No Data Available.  
EYE CONTACT: No Data Available.  
INGESTION: No Data Available.

**SECTION 12. ECOLOGICAL INFORMATION**

Data Not Yet Available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all applicable regulations.

**SECTION 14. TRANSPORT INFORMATION**

No classification assigned (DOT, Canadian, Land, Air & Maritime).

**SECTION 15. REGULATORY INFORMATION**

TSCA INVENTORY STATUS: No.  
TSCA 12 (b) EXPORT NOTIFICATION: Not listed.  
CERCLA SECTION 103 (40CFR302.4): No.  
SARA SECTION 302 (40CFR355.30): No.  
SARA SECTION 304 (40CFR355.40): No.  
SARA SECTION 313 (40CFR372.65): No.  
SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):  
    ACUTE: No.  
    CHRONIC: No.  
    FIRE: No.  
    REACTIVE: No.  
    SUDDEN RELEASE: No.  
OSHA PROCESS SAFETY (29CFR1910.119): No.  
STATE REGULATIONS:  
    CALIFORNIA PROPOSITION 65: No.  
CANADIAN REGULATIONS: Not assigned.  
EUROPEAN REGULATIONS: Not assigned.



**PhyNexus, Inc.**

**BUFFER G**  
**PROTEIN A/G NEUTRALIZATION BUFFER MSDS**

<b>SECTION 16.</b>	<b>ADDITIONAL INFORMATION</b>
--------------------	-------------------------------

The information provided herein is believed to be accurate at the time of preparation or prepared from sources believed to be reliable. Users have the responsibility to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. PHYNEXUS MAKES NO WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED, AND IN NO WAY SHALL PHYNEXUS BE LIABLE FOR ANY CLAIMS, LOSSES, OR DAMAGES OF ANY THIRD PARTY OR FOR LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES HOWSOEVER ARISING.

**PhyNexus, Inc.**  
3670 Charter Park Drive, Suite A, San Jose, CA 95136  
Tel: 408.267.7214 Fax: 408.267.7346  
[www.phynexus.com](http://www.phynexus.com)