



## MATERIAL SAFETY DATA SHEET (MSDS)

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**NEB #B7709**

### SECTION 1—CHEMICAL INFORMATION

Product Name: 3X Red Loading Buffer Cas.# None

### SECTION 2—COMPOSITION/INFORMATION ON INGREDIENT

- |                           |     |                |
|---------------------------|-----|----------------|
| 1. Glycerol               | 30% | Cas.# 56-81-5  |
| 2. SDS                    | 6%  | Cas.# 151-21-3 |
| 3. Tris buffered with HCl | 3%  | Cas.# 77-86-1  |

*Note: The CAS number listed above is for Tris. HCl (< 1%) was added to the Tris to alter the pH level.*

The ingredients listed in this section include only those items that have more than 1% of a component classified as hazardous and 0.1% of a component classified as carcinogenic. If you have any questions, please contact info@neb.com.

### SECTION 3—HAZARDOUS IDENTIFICATION

**Emergency Overview:** May cause irritation to skin, eyes, and respiratory tract, may affect lungs and kidney.

**HMIS and NFPA Ratings:** 0 – Minimal or None, 1 – Slight, 2 – Moderate, 3 – Serious, and 4 – Severe

Health: 2  
Flammability: 1  
Reactivity: 1

### SECTION 4—FIRST AID MEASURES

**Eyes:** Flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids. Call a physician.

**Skin:** Wash skin with soap and copious amount of water.

**Ingestion:** If the person is conscious, wash out mouth with water. Call a physician.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

### SECTION 5—FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

**Special Fire Fighting Procedures:** Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Fire and Explosion Hazards:** Combustible liquid. Emits toxic fumes under fire conditions.

## SECTION 6—ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid breathing or contact with vapors, mist of gas.

**Environmental Precautions:** Do not let product enter drains.

**Methods For Cleaning Up:** Cover with dry lime, sand, or soda ash. Sweep up and shovel. Place in covered container for disposal.

## SECTION 7—HANDLING AND STORAGE

**Handling:** Provide appropriate exhaust ventilation.

**Storage:** Keep tightly closed in a dry and well ventilated place. Store at -20°C .

## SECTION 8—EXPOSURE CONTROLS/PPE

**Engineering Controls:** Safety shower and eye wash. Mechanical exhaust.

**Personal Protective Equipment:**

**Eye Protection:** Safety goggles.

**Hand Protection:** Compatible resistant gloves.

**Respiratory Protection:** None required.

**Hygiene Measure:** General practice, wash (hands and skin) thoroughly after handling. Remove and wash contaminated clothing.

## SECTION 9—PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Form: Liquid                      Color: Clear or colorless                      Odor: None or odorless

<u>Property</u>	<u>Value</u>	<u>Temperature or Pressure</u>
Boiling Point Range:		no available date
Melting Point Range:		no available date
Flash Point:		no available date
Auto Ignition Temp:		no available date
Vapor Pressure:		no available date
Vapor Density:		no available date
Specific Gravity:		no available date
Solubility in Water:		no available date

## SECTION 10—STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Materials to Avoid:** Acid chlorides, Phosphorus halides, strong oxidizing agents, strong acids, strong reducing agents.

**Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide, Sulfur dioxides.

**Hazardous Polymerization:** Will not occur.

## SECTION 11—TOXICOLOGICAL INFORMATION

**Potential Acute and Chronic Affects Based On Routes Of Exposure**

**Eye Contact:** Causes irritation.

**Skin Contact:** Causes irritation.

**Ingestion:** Harmful if swallowed.

**Inhalation:** Inhalation causes irritation of respiratory tract.

**Chronic Exposure**

**Target Organ(s):** May cause kidney and lung damage.

**Aggravation of Pre-existing Conditions:** Persons with pre-existing skin disorder or eye problems or impaired lung or kidneys may be more susceptible to the effects of the material.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.

**IARC:** No component of this product present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1 % is identified as a known or suspected human carcinogen or confirmed animal with unknown relevance humans.

## SECTION 12—ECOLOGICAL INFORMATION

No data available.

## SECTION 13—DISPOSAL CONSIDERATIONS

Dispose of container, unused contents and contaminated packaging in accordance with federal, state and local requirement. Contract with a licensed Chemical Waste Disposal Service.

## SECTION 14—TRANSPORT INFORMATION

This product is not dangerous and no special precautions are needed according to DOT, ADR/RID (cross border), IMDG and IATA/ICAO.

## SECTION 15—REGULATORY INFORMATION

**OSHA Hazards:** None known.

**US Classification and Label Test**

**US Statements:** Caution. Avoid contact and inhalation. Target Organ (s): Lung and Kidneys.

**United States Regulatory Information:**

Sara Listed: No

TSCA Inventory Item: Yes

**Canada Regulatory Information**

**WHMIS Classification:** This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**DSL:** Yes

**NDSL:** Yes

**EU Additional Classification**

S: 23 24/25

Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

## SECTION 16—OTHER INFORMATION

### DISCLAIMER

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