# MATERIAL SAFETY DATA SHEET

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**NEB# E6108**

## SECTION 1–CHEMICAL INFORMATION

Product Name: NEBNext® Second Strand Synthesis Reaction Buffer Cas.# None

## SECTION 2–COMPOSITION/INFORMATION ON INGREDIENT

1. Amonium Sulfate 1.6% Cas.# 7647-14-5
2. Tris buffered with HCl 2.4% 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 eyes.

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

Health: 1
Flammability: 0
Reactivity: 0

## 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

| Property | Value | Temperature or Pressure |
|---|---|---|
| Boiling Point Range: | No data available | |
| Melting Point Range: | No data available | |
| Flash Point: | No data available | |
| Auto Ignition Temp: | No data available | |
| Vapor Pressure: | No data available | |
| Vapor Density: | No data available | |
| Specific Gravity: | No data available | |
| Solubility in Water: | Soluble | |

## SECTION 10–STABILITY AND REACTIVITY

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

**Materials to Avoid:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chlonde gas, carbon oxides and sodium oxides.

**Hazardous Polymerization:** Will not occur.

## SECTION 11–TOXICOLOGICAL INFORMATION

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

**Eye Contact:** May cause irritation.

**Skin Contact:** May cause irritation.

**Ingestion:** May cause vomiting, diarrhea, dehydration and congestion in the internal organs.

**Inhalation:** Mist may cause irritation of respiratory tract and gastrointestinal tract.

**Chronic Exposure**

**Target Organ(s):** No data available.

**Aggravation of Pre-existing Conditions:** Persons with pre-existing skin disorder or eye problems 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.

**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:** No

**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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Questions about the information found on this MSDS should be directed to info@neb.com.