

# **Material Safety Data Sheet**

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

Product name: RNA safeguard Reagent

Supplier: HANGZHOU BIOER TECHNOLOGY CO., LTD

Address: 1192 BinAn Rd, Hi-tech (Binjiang) District, Hangzhou, P.R. China

Site Phone Number: +86-571-87774307

Emergency telephone number: +86-571-87774567-5278; +86-800-857-1279

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

# Description:

Components	CAS Number	Weight %
Ammonium sulfate	7783-20-2	30-40
Glycine	56-40-6	0.1-<1
Na₂EDTA	6381-92-6	0.1-<1
Trisodium citrate dihydrate	6132-04-3	1-5

#### 3. HAZARDS IDENTIFICATION

#### **Emergency Overview**

NFPA Ratings: Health= 1 Flammability= 0 Reactivity= 0 Special= I

Special Definitions: A=Allergen CA=Carcinogen CO=Corrosive F=Flammable H=Harmful I=Irritant Ox=Oxidizer PB=Potential

Biohazard R=Reproductive S=Sensitizer T=Toxic T+=Highly Toxic W=Water Reactive

Principle routes of exposure: Ingestion, skin and/or eye contact.

Inhalation: Avoid breathing vapors or mists. May cause irritation of respiratory tract.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin contact: Prolonged skin contact may cause irritation.

Eye contact: May cause irritation.

Sensitization or Odor threshold: None.

Medical conditions aggravated by exposure: None known.

Additional information: GLYCEROL - May cause kidney injury with chronic exposure.

#### 4. FIRST AID MEASURES

Inhalation: Consult a physician. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin contact: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Ingestion: Call a physician immediately. Do not induce vomiting without medical advice.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Notes to physician: None determined.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam.

Unusual hazards: None known.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.



#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Do not let product enter drains.

**Methods for cleaning up:** Never return spills in original containers for re-use. Soak up with oil absorbent material. Sweep up or vacuum (if powder) or soak up with inert absorbent material (if liquid), then place into a suitable clean, dry, closed container, and label for disposal.

### 7. HANDLING AND STORAGE

Handling: Protect from contamination. Wear personal protective equipment.

Storage: No special precautions required.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Not applicable.

Personal Protective Equipment

Respiratory protection: Respiratory protection is not required under normal use of this product. If respiratory protection is needed,

follow the OSHA regulation, 29CFR1910.134. Always use a NIOSH approved respirator when necessary.

Hand protection: Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.

Skin and body protection: Wear appropriate body protection to prevent skin contact.

**Eye protection:** Wear appropriate eye protection to prevent eye contact.

**Hygiene measures:** When using, do not eat, drink or smoke. Keep away from food and drink. Wash hands before breaks and at the end of workday.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Colorless.
Odor: None.
pH: 8-8.3

Physical state: Liquid.

Solubility in water: Soluble.

# 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization: None under normal processing.

**Hazardous decomposition products:** None under normal processing. **Materials to avoid:** Strong acids. Strong bases. Strong oxidising agents.

#### 11. TOXICOLOGICAL INFORMATION

Components	NIOSH -	
	Selected LD50s and LC50s:	
Ammonium sulfate	=5628 mg/kg Oral LD50 Rat	
Glycine	=0.96 mg/kg Oral LD50 Rat	
Na <sub>2</sub> EDTA	>2000 mg/kg Oral LD50 Rat	
Trisodium citrate dihydrate	=1549 mg/kg Oral LD50 Rat	

Inhalation: No additional data available



**Skin:** No additional data available **Oral:** No additional data available

**Mutagenic effects:** No data is available on the product itself **Reproductive toxicity:** No data is available on the product itself

# 12. ECOLOGICAL INFORMATION

Bioaccumulation: Not determined

**Aquatic toxicity:** No data is available on the product itself **Ecotoxicity effects:** No data is available on the product itself

#### 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

# 14. TRANSPORT INFORMATION

Is product hazardous to ship? No.

#### <u>DOT</u>

Proper shipping name: None	Э		
UN Number: Not applicable	Hazard class: Not applicable	Subsidiary risk: Not applicable	Packing group: Not applicable

#### ICAO/IATA

Proper shipping name: None				
UN Number: Not applicable	Hazard class: Not applicable	Subsidiary risk: Not applicable	Packing group: Not applicable	

# 15. OTHER INFORMATION

Reason for revision: Not applicable

References: None.

Additional advice: None

Prepared by: HANGZHOU BIOER TECHNOLOGY CO.,LTD

**End of Safety Data Sheet**