

# Safety Data Sheet

Revision: 12/10/2010

**Warning**

Hazard information is provided for compliance with both the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations

## IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**PRODUCT NAME:**  
RNase A, Molecular Biology Grade, Solution

**PRODUCT CODE:**  
70194

### SUPPLIER:

Affymetrix | USB, 26111 Miles Road, Cleveland, OH 44128 Phone: 216-765-5000

Please visit our website at [usb.affymetrix.com](http://usb.affymetrix.com) for contact information on USB product distributors within your area.

### Emergency Contact:

Chemtrec (800) 424-9300

Outside USA & Canada (703) 527- 3887

## HAZARDS IDENTIFICATION

### GHS

Skin irritation (Category 3)  
Eye irritation (Category 2B)

### CHIP

Irritant

## LABEL ELEMENTS

### **Hazard statements**

H316 Causes mild skin irritation.  
H320 Causes eye irritation.

### **Precautionary statements**

P264 Wash hands thoroughly after handling.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### **R & S phrases**

R:36/38 Irritating to eyes and skin.  
S:26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S:36/37 Wear suitable protective clothing and gloves.

## COMPOSITION/INFORMATION ON INGREDIENTS

### HAZARD

Glycerol

### CAS NO.

56-81-5

### EC NO:

200-289-5

### %WT

~50%

## FIRST-AID MEASURES

EYES: Flush with water for 15 minutes. Seek medical advice if irritation persists.

SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.

INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Seek immediate medical attention.

INGESTION: Drink water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

## FIRE-FIGHTING INFORMATION

Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (or equivalent) approved self contained breathing apparatus. For small fires only: use carbon dioxide, dry powder or foam. Contact with strong oxidizing agents may produce an explosion.

Explosion Limits for Glycerol = Lower - 1.1; Upper - Not available.

Flash point for Glycerol = 193°C (379.4°F); Autoignition temperature for Glycerol = 400°C (752°F).

## ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. Collect in a manner that does not create dust and place in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation.

## HANDLING AND STORAGE

Wash thoroughly after handling. Use with adequate ventilation. Wash clothing before reuse. Store material in a cool, dry place. Containers (even empty) may retain product vapors and residue. Store away from ignition sources and excess heat. Store away from incompatible materials including strong oxidizers, mixtures with hydrogen peroxide, potassium permanganate, calcium hypochlorite, nitric acid, sulfuric acid, perchloric acid and lead oxide.

## PERSONAL PROTECTION

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH (or equivalent) and appropriate to the hazard. Avoid contact of material with skin or eyes. Mechanical ventilation or local exhaust as needed to control exposure to dust, vapors or mists. Access to a safety shower and eye-wash. HMIS Ratings: H = 1 F = 1 R = 0.

## PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear viscous solution  
Vapor Pressure: No data available  
Solubility (Water): No data available  
Percent Volatile: No data available

Boiling Point: No data available  
Vapor Density: No data available  
Specific Gravity: No data available  
Evaporation Rate: No data available

**STABILITY AND REACTIVITY**

Chemical Formula: Mixture

Melting Point: No data available

Product is stable under normal conditions. Avoid strong oxidizing agents including mixtures with hydrogen peroxide, potassium permanganate, calcium hypochlorite, nitric acid, sulfuric acid, perchloric acid and lead oxide. Contact with Sodium Hypochlorite and Hypochlorous acid may cause an explosion.

**TOXICOLOGICAL INFORMATION**

EFFECTS OF OVEREXPOSURE:

EYES: Contact may cause irritation and slight corneal injury.

SKIN: Prolonged contact may cause irritation and/or allergic reaction.

INHALATION: No known toxicity, but excessive fumes may cause irritation if inhaled.

INGESTION: May cause irritation of gastrointestinal tract and diarrhea.

ADDITIONAL INFORMATION:

May cause slight or transient irritation to eyes and skin. Has caused moderate irritation in dermal (rabbit) studies. Low single and repeated dose toxicity. Ingesting large quantities may cause nausea and vomiting.

Irritation, mutation, reproductive effects and toxicity data for Glycerol listed in RTECS under MA8050000.

Only select RTECS information is provided here. Please see actual RTECS entry for complete information.

Irritation data: Skin Rabbit 500 mg/24H = Mild (1986). Eye Rabbit 500 mg/24H = Mild (1986).

Toxicity data: Oral Rat LD50 = 12600 mg/kg (1945). Inhalation Rat = >570 mg/m<sup>3</sup>/1H (1970). Toxic effects may include muscle weakness, general anesthetic and changes in the liver.

Reproductive: Fertility - post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants -1985).

Paternal Effects - spermatogenesis (incl. genetic material, sperm morphology, motility and count) and testes, epididymis and sperm duct (1989).

Definition(s): RTECS = Registry of Toxic Effects of Chemical Substances.

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

**ECOLOGICAL INFORMATION**

No information available.

**DISPOSAL CONSIDERATIONS**

Dispose of material in accordance with applicable local, state, and federal regulations.

**TRANSPORTATION INFORMATION**

US DOT / IATA: No applicable information.

**REGULATORY INFORMATION**

RCRA - No applicable information.

SARA 302 - This material does not have an RQ or TPQ.

SARA 313 - This material is not reportable under 313.

EPA TSCA Section 8(b) - For Glycerol: Chemical Inventory.

Exposure limits Glycerol - ACGIH TLV - TWA: 10 mg/m<sup>3</sup> (total particulate)

OSHA PEL TWA: 15 mg/m<sup>3</sup> (total dust)

California Proposition 65 - No applicable information.

This data sheet is based upon information believed to be reliable. The Company makes no statement or warranty as to the accuracy or completeness of the information contained herein which is offered for your consideration, investigation and verification. Any use of the information contained in this data sheet must be determined by the user to be in accordance with appropriate applicable regulations.