

MATERIAL SAFETY DATA SHEET
OSHA "Hazard Communication" (29 CFR 1910.1200)

Section I- Manufacturer and Product

Genisphere Inc.
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Molecular Biology Reagents

Product Name: FlashTag RNA Labeling kits

Product No.: FT10AFYB, FT30AFYB, HSR10FTA, HSR30FTA

Reagent kits for the biotin labeling of RNA.

Includes complete instructions, Poly(A) Tailing Enzyme with buffers and ATP, proprietary 3DNA dendrimer ligation mix, T4 DNA ligase, synthetic DNA oligonucleotides (blocking reagent), and Synthetic DNA and RNA oligonucleotides (control reagents), and a solution containing formamide (for use in the hybridization mixture) . These reagents are sufficient for 10 or 30 tests per kit.

Section II- Hazardous Ingredients

Vials 1-11: Nonhazardous in the quantities provided.

Vial 12: Limited quantity of formamide (CAS # 75-12-7) as a 27.5% solution.

Section III- Physical Data

Appearance: Vials 1, 2, 3, 5, 7, 8, 9, 10, and 11 are clear, colorless liquids when thawed. Vials 4 and 6 are clear, colorless and somewhat viscous liquids when frozen or thawed due to the presence of 50% glycerol.

Vial 12 contains 27.5% Formamide, with the following physical characteristics:

Appearance and Odor:	Colorless, hybroscopic oily liquid
Boiling Point:	210°C
Specific Gravity (water = 1):	1.128 cm ³
Vapor Density (air = 1):	1.6
Evaporation Rate:	Not applicable
Vapor Pressure (mm Hg):	0.08
Solubility in Water:	Soluble
CAS#:	75-12-7

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Section IV- Fire and Explosion Hazard Data

None reported for Vials 1-11.

Vial 12 only:

Flash Point:	154°C
Flammable Limits in Air (% by Volume):	No Data
Extinguishing Media:	Water, CO ₂ , foam, Dry Chemical
Special Fire Fighting:	Wear self contained breathing apparatus and protective equipment
Unusual fire/Explosion Hazards:	Moderate, when exposed to heat or flames. Can react with oxidizing materials.

Section V- Health Hazard Data

Vials 1-11 contain no hazardous materials as defined by the OSHA Hazard Communication Standard. The toxicological properties of the contents of these vials have not been determined.

Vial 12 contains 27.5% Formamide (CAS# 75-12-7)

Effects of Overexposure: Mists and heated vapors are irritating to the upper respiratory tract and eyes

Emergency First Aid Procedures: Wash affected area with water. Irrigate eyes for at least 15 minutes. See physician.

Section VI- Reactivity Data

All vials:

Stable
Hazardous Polymerization will not occur.

Vial 12 only:

Incompatibility: Strong oxidizing agents, protect from moisture, acids & bases.
Hazardous Decomposition Products: Toxic fumes of CO, CO₂ & Nitrogen Oxides.

Section VII- Spill or Leak Procedures

Spill: Absorb on sand and place in open container for disposal. Ventilate areas and wash spill site.

Waste Disposal: Dispose of in accordance with all State, Local and Federal Regulations.

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Section VIII- Special Protection Information

Vials 1-11:

Respiratory Protection: Not required under normal product usage.

Ventilation: Not required under normal product usage.

Protective Gloves: Required. General lab gloves (or equivalent) must be worn.

Eye Protection: General lab eye protection - goggles.

Other Protection Equipment: Not required under normal product usage.

Work Practices: Good laboratory technique should be used when handling this product. Do not mouth pipette! Observe appropriate chemical hygiene and avoid contact with skin, eyes and clothing.

Hygienic Practices: Do not eat, drink or smoke while working with reagents. Upon completion of work activities involving this product, wash any exposed body areas thoroughly with soap and water.

Handling and Storage Considerations: Laboratory aprons and gloves. Cold storage.

Vial 12 only:

Respiratory Protection: use NIOSH approved respirator as needed.

Ventilation: Lab hood as required.

Protective Gloves: Required. General lab gloves (or equivalent) must be worn.

Eye Protection: General lab eye protection - goggles.

Other Protection Equipment: Not required under normal product usage.

Work Practices: Good laboratory technique should be used when handling this product. Do not mouth pipette! Observe appropriate chemical hygiene and avoid contact with skin, eyes and clothing.

Hygienic Practices: Do not eat, drink or smoke while working with reagents. Upon completion of work activities involving this product, wash any exposed body areas thoroughly with soap and water.

Handling and Storage Considerations: Laboratory aprons and gloves. Cold storage.

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Section IX- Special Precautions/Comments

Store according to label directions.

For Research Use Only. This product is not intended for human or therapeutic use.

Date of Preparation: 07 May 2010

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