

## MATERIAL SAFETY DATA SHEET

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### MANUFACTURER

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### PRODUCT IDENTIFICATION

**PRODUCT:** HER2 Green and Chromosome 17 Centromere Red DNA FISH Probe  
**CATALOG #:** 70-0023ASR, 70-0023

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### HAZARDOUS COMPONENT INFORMATION

<b>% / Chemical Name:</b>	<b>CAS# / EINECS#:</b>	<b>Hazard Classification:</b>
30-60 / Formamide	75-12-7 / 200-842-0	T(Repr2); R61
>1 / Water	7732-18-5 / 231-791-2	None Identified

NOTE: The Hazard Classification listed in this section refers to the chemical at a pure concentration. It has been determined that the remaining ingredient(s) of this component/product are NOT CLASSIFIED AS HAZARDOUS CHEMICALS due to their physical and/or chemical nature and/or concentration in solution, in accordance with California and Federal OSHA regulations (Federal Register 29CFR 1910.1200), and The Chemicals (Hazard Information and Packaging for Supply) Regulations (European Community).

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### HAZARDS IDENTIFICATION

**Physical and Chemical Hazards:** May cause harm to the unborn child. Contains organic solvents which may penetrate the skin.

**Skin Contact:** May cause irritation, dryness, inflammation, and itching. Contains organic solvents which may penetrate the skin.

**Eye Contact:** May cause irritation, redness, watering of eyes and pain.

**Inhalation:** May cause irritation of mucous membranes, headache, dizziness, nausea or coughing. Frequent inhalation of even small concentrations may cause irritability, fatigue and memory failure and eventually permanent damage to the nervous system, including the brain.

**Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and headache.

**Environment:** None identified.

### HANDLING AND STORAGE

Keep container tightly closed. Store away from heat. Store in a cool dry place (2-8°C). Keep out of reach of children.

### EXPOSURE CONTROLS / PERSONAL PROTECTION

**Permissible Exposure Limit (OSHA TWA/TLV/STEL):** Formamide: 10 ppm (18 mg/m<sup>3</sup>) (TWA)

**Precautionary measures during use:** Avoid physical contact and prolonged or repeated exposures. Do not breathe vapors if produced. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Mechanical exhaust is required. **NOTE:** Pregnant and nursing mothers should not handle products containing Formamide due to the risk of reproductive damage.

**Skin:** Use chemically resistant gloves (e.g. rubber, plastic), lab coat with sleeves or rubber apron.

**Eye:** Splash-proof chemical safety goggles or face shield.

**Other:** Eye wash or safety shower.

**Environmental Exposure Controls:** Not available.

### **TOXICOLOGICAL INFORMATION (dangerous-to-health effects)**

Formamide: **Toxic. Reproductive Hazard.** Ori-rat LD50 = 5577 mg/kg. Target organ(s): Nerves, Liver.

**NOTE:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated at product concentrations.

### **REGULATORY INFORMATION / LABELING**

**Contains:** 30-60% Formamide

**R-and S-phrases:**

R61: May cause harm to the unborn child.

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

S53: Avoid exposure - Obtain special instructions before use.

S60: This material and/or its container must be disposed of as hazardous waste.

: Restricted to professional users.

: As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper procedure, the dangerous properties of the product and the necessary safety instructions.

**Hazard Symbol(s):**



**Toxic (T)**

**Restrictions on Use:** The product is for laboratory use only. The product must not be handled by persons under 18 years of age.

**Training Provisions:** The product should be handled only by technically qualified individuals experienced in handling potentially hazardous chemicals. The content of this Material Safety Data Sheet should also be known before use.

**OSHA Status:** In accordance with the OSHA Hazard Communication Standard, at product concentrations, the chemical components listed on this Material Safety Data Sheet are classified as hazardous.

**Toxic Substances Control Act (TSCA):** This product complies with all TSCA inventory requirements.

**California Proposition 65:** The following statement is made in order to comply with the California State Drinking Water and Toxic Enforcement Act of 1986. **This product does NOT contain chemicals on California's listing of known or suspected carcinogens.**

**Applicable Compliance Standards:** This Material Safety Data Sheet is in compliance with the Federal Occupational Safety and Health Administration's Hazard Communication Standard [29 CFR 1910.1200 ET. SEQ.], and The Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (European Community).

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THE PROVIDED INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT CLAIM TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. TRAINED PERSONNEL AND GOOD LABORATORY PRACTICES SHOULD COMPLEMENT USE OF THIS PRODUCT. GENEMED BIOTECHNOLOGIES, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGES RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.