

Product name: MaestroSafe Prestained Nucleic Acid Stains

Catalog number: MR-031203

### 1. IDENTIFICATION OF THE SUBSTANCE

Application of the substance / the preparation: Laboratory chemicals

Manufacturer/Supplier:

Maestrogen, Inc.,

Address:

8275 South Eastern, Avenue #200, LAS VEGAS NV 89123, USA

TEL : +886-3-5308665 FAX : +886-3-5308663

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

Formula: C<sub>21</sub>H<sub>28</sub>N<sub>4</sub>

CAS number: 7732-18-5

### 3. HAZARDS IDENTIFICATION

Not hazardous according to Directive 67/548/EEC.

Emergency overview : Irritant.

Irritating to eyes, respiratory system and skin.

HMIS rating : Health : 2

Flammability : 0

Reactivity : 1

NFPA rating : Health : 2

Flammability : 0

Reactivity : 1

### 4. FIRST AID MEASURES

Eye contact:

Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyes with fingers. Call a physician.

Skin contact:

Wash off immediately with plenty of soap and water. If irritation develops, get medical attention.

Inhalation:

Move to fresh air. If breathing becomes difficult, call a physician

Ingestion:

Wash out mouth with water provided person is conscious. Call a physician.



## **5. FIRE FIGHTING MEASURES**

### **Special risks**

Wear self-contained breathing apparatus and protective clothing if necessary. Decomposes at melting point. Toxic gasses produced: hydrogen chloride, nitrogen oxides, carbon monoxide and carbon dioxide.

### **Suitable extinguishing media**

Dry chemical

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Use personal protective equipment

### **Methods for cleaning up**

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Ventilate after spill.

## **7. HANDLING AND STORAGE**

### **Handling**

No special handling advice required.

### **Storage**

Keep container tightly closed in a dry and well-ventilated place. Light sensitive. Hygroscopic.

## **8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

As appropriate to quantity handled.

NIOSH/MSHA approved respirator if necessary.

Compatible chemical resistant gloves.

Chemical safety goggles.

Keep tightly closed.

Store in a cool dry place.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form:** liquid

**Colour:** Orange-red to Brown

**Odour:** N/A

**PH value:** 239°C

**Boiling point:** N/A

**Melting point:** N/A

**Flash point :**N/A

**Autoflammability:** N/A

**Explosion limits:** N/A

**Vapour pressure:** N/A

**Relative density :** N/A

**Water solution :** Soluble

**Ignition temperature :**N/A

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<http://www.maestrogen.com>

## 10. STABILITY AND REACTIVITY

Stability: Stable

Materials to avoid: N/A

Hazardous decomposition products: N/A

Polymerization: Does not occur

## 11. TOXICOLOGICAL INFORMATION

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/mouse)	LD50 (inhalation, rat/mouse)
Water	N/A	N/A	N/A
SafeView	>5000 mg/kg	N/A	N/A
Tris Base	5900 mg/kg	N/A	N/A
Boric Acid	2260 mg/kg	N/A	N/A
Ethylenediaminetetraacetic acid, tetrasodium salt	N/A	N/A	N/A

### **Route of exposure / Potential health effects**

Skin Contact: May cause irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye contact: May cause eye irritation.

Inhalation: May cause irritation to upper respiratory tract and mucous membranes. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

### **Mutagenic effects**

Mutation Data: Cell transformation, Syrian hamster embryo (SHE) cells, negative; Forward gene mutation at the thymidine kinase (TK) locus, mouse lymphoma (L5178Y) cells, negative with and without metabolic activation; Chromosomal aberrations, human peripheral blood lymphocytes, negative with and without metabolic activation; Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA97a, TA98, TA102, TA1538), positive with metabolic activation; Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA97a, TA98, TA102, TA1538), negative without metabolic activation; Histidine reverse gene mutation, Ames assay, Salmonella typhimurium (TA100, TA1535, TA1537), negative

**Carcinogenic effects** - N/A

**Reproductive toxicity** - N/A

**Sensitization** - N/A

**Target organ information** - N/A

## 12. Ecological Information

**Ecotoxicity Effects** Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

**Effects in waste water treatment plants** Chemical oxygen demand, 7020 ug/L (USEPA 410.1) Ammonia as nitrogen, 253 ug/L (USEPA 350.1) Total organic carbon, 2480 ug/L (USEPA 415.1)

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Total phenolics, none detected (USEPA 420.1) Organochlorine pesticides and PCBs, none detected (USEPA 608M) Semi-volatile organic compounds, none detected (USEPA 625) Volatile organic compounds, none detected (USEPA 624) Priority Pollutant Metals, none detected (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn) (USEPA 200.7/200 series)

### **13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

### **14. TRANSPORT INFORMATION**

Dot (US) - Not dangerous goods

IMDG - Not dangerous goods

IATA - Not dangerous goods

### **15. REGULATORY INFORMATION**

Indication of danger: Not hazardous

S-PHRASES: None

R-PHRASES: None

### **16. OTHER INFORMATION**

The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

Applied Biological Materials Inc. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Datasheet.