

## MATERIAL SAFETY DATA SHEET

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### Section 1 Product and Company Information

**Product Name and Number** GoldEnhance™ EM (2113), GoldEnhance™ EM Plus (2114) GoldEnhance™ LM (2112) and GoldEnhance™ Blots (2115)

**Company** Nanoprobes

**Address** 98 Horse Block Road, Yaphank, NY 11980, US

**Technical Phone:** 877-447-6266

**Fax:** 631-205-9493

**Emergency Phone:** 631-205-9490

### Section 2 Composition/Information on Ingredient

Substance Name	CAS #	SARA 313
GoldEnhance	None	No

GoldEnhance Components:

GoldEnhance - Solution A (Enhancer)

GoldEnhance - Solution B (Activator)

GoldEnhance - Solution C (Initiator)

GoldEnhance - Solution D (Buffer)

### Section 3 Hazards Identification

#### EMERGENCY OVERVIEW

Irritant.

Irritating to eyes and skin.

#### HMIS RATING

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 0

#### NFPA RATING

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 0

## Section 4 First Aid Measures

### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

### DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

### EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of Water for at least 15 minutes.

## Section 5 Fire Fighting Measures

### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Specific Hazard(s): Emits toxic fumes under fire conditions.

## Section 6 Accidental Release Measures

### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

### METHODS FOR CLEANING UP

Wipe up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

## Section 7 Handling and Storage

### HANDLING

Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### STORAGE

Suitable: Keep tightly closed.  
Store at 2 - 8°C

## Section 8 Exposure Controls/PPE

### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143)respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

## Section 9 Stability and Reactivity

### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## Section 10 Toxicological Information

### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

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

Eye Contact: Causes eye irritation.

Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Section 11 Disposal Considerations

### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE

Contact a licensed professional waste disposal service to dispose the supernatant. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator

equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

#### Section 12 Transport Information

##### DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

##### IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

#### Section 13 Regulatory Information

##### EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xi

Indication of Danger: Irritant.

R: 36/38

Risk Statements: Irritating to eyes and skin.

S: 26-36

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

##### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Irritant.

Risk Statements: Irritating to eyes and skin.

Safety Statements: Wear suitable protective clothing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

##### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

#### Section 14 Other Information

##### DISCLAIMER

For R&D use only. Not for drug, household or other uses.

##### WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Nanoprobes Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.