

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 01Apr2020

### **SECTION 1: IDENTIFICATION**

#### 1.1. **Product Identifier**

Product Name: MSD GOLD Read Buffer A, Read Buffer T (2X) and PQ Negative Control

Product Code: R92TG, R92TF, 3-3011-020017

#### **Intended Use of the Product** 1.2.

Laboratory chemicals

#### 1.3. Name, Address, and Telephone of the Responsible Party

### Company

Meso Scale Diagnostics, LLC.

1601 Research Blvd

Rockville, MD 20850-3128

T 240-314-2600

#### 1.4. **Emergency Telephone Number**

**Emergency Number** : Within the U.S. and Canada (24 hours, toll-free)

CHEMTREC: 1-800-424-9300

International (Hours of operation: Monday - Friday, 1230 - 2130 UTC or 0830 - 1730 ET)

MSD direct dial: +1-240-314-2799

### **SECTION 2: HAZARDS IDENTIFICATION**

#### **Classification of the Substance or Mixture** 2.1.

### **GHS-US classification**

Flam. Liq. 4 H227 Skin Irrit. 2 H315 H318 Eye Dam. 1

Full text of H-phrases: see section 16

#### 2.2. **Label Elements**

**GHS-US Labeling** 

**Hazard Pictograms (GHS-US)** 





Signal Word (GHS-US)

: Danger

**Hazard Statements (GHS-US)** : H227 - Combustible liquid.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Precautionary Statements (GHS-US) : P210 - Keep away from extremely high or low temperatures, ignition sources, and

incompatible materials. No smoking.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P280 - Wear protective gloves, protective clothing, and eye protection.

P302+P352 - If on skin: Wash with plenty of water.

P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash before reuse.

P305+P351+P338 - If in eyes: Remove contact lenses if possible, and rinse cautiously with

water for several minutes then seek immediate medical assistance.

P321 - Specific treatment (see section 4 on this SDS).

P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

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P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

May be corrosive to respiratory tract.

2.4. Unknown Acute Toxicity (GHS-US) No data available

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product Identifier	% (w/w)	GHS-US classification
1,3-Propanediol, 2-amino-2-	(CAS No) 1185-53-1	5 - 10	Skin Irrit. 2, H315
(hydroxymethyl)-, hydrochloride			Eye Irrit. 2A, H319
			STOT SE 3, H335
Tripropylamine	(CAS No) 102-69-2	1 - 5	Flam. Liq. 3, H226
			Acute Tox. 3 (Oral), H301
			Acute Tox. 3 (Dermal), H311
			Acute Tox. 4 (Inhalation:dust,mist), H332
			Skin Corr. 1B, H314
			Eye Dam. 1, H318
			STOT SE 3, H335
			Aquatic Acute 3, H402
			Aquatic Chronic 3, H412
Poly(oxy-1,2-ethanediyl), .alpha[4-	(CAS No) 9002-93-1	0.1 - 0.5	Acute Tox. 4 (Oral), H302
(1,1,3,3-tetramethylbutyl)phenyl]-			Skin Irrit. 2, H315
.omegahydroxy-			Eye Dam. 1, H318
			Aquatic Acute 2, H401
			Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

### **SECTION 4: FIRST AID MEASURES**

### 4.1. Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Immediately flush skin with plenty of water. Wash contaminated clothing before reuse. Seek medical attention if irritation occurs.

**Eye Contact:** Rinse cautiously with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention immediately.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention if you feel unwell.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye damage.

**Inhalation:** May be corrosive to the respiratory tract.

Skin Contact: Causes skin irritation.

**Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms: Not available** 

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

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### **SECTION 5: FIRE-FIGHTING MEASURES**

### 5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Combustible liquid.

**Explosion Hazard:** May form flammable or explosive vapor-air mixture.

Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

### 5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen compounds. Hydrogen chloride. Sodium oxides.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Do not breathe vapor, mist or spray.

### 6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Eliminate ignition sources.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools. Cautiously neutralize spilled liquid.

### 6.4. Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

## **SECTION 7: HANDLING AND STORAGE**

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors may be flammable. May release corrosive vapors.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place. Store in original container or corrosive resistant and/or lined container.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

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### 7.3. Specific End Use(s)

Laboratory chemicals

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

## 8.2. Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.



**Relative Density** 

**Specific Gravity** 









Materials for Protective Clothing: Chemically resistant materials and fabrics. Wear liquid resistant clothing.

**Hand Protection:** Wear protective gloves.

**Eye Protection:** Chemical goggles or face shield.

Skin and Body Protection: Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid

**Appearance** : Clear to yellow liquid

Odor: Amine-likeOdor Threshold: Not availablepH: 7.3 - 8

Not available **Evaporation Rate Melting Point** Not available **Freezing Point** Not available **Boiling Point** Not available **Flash Point** > 60°C (140°F) **Auto-ignition Temperature** Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not available **Lower Flammable Limit** Not available **Upper Flammable Limit** Not available **Vapor Pressure** Not available Relative Vapor Density at 20 °C Not available

**Solubility** : Miscible with water.

Partition Coefficient: N-Octanol/Water : Not available
Viscosity : Not available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact.

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**Explosion Data – Sensitivity to Static Discharge** : Static discharge not expected to act as an ignition source.

### **SECTION 10: STABILITY AND REACTIVITY**

- **10.1. Reactivity:** Reacts violently with strong oxidizers. May produce toxic vapors upon reaction with bleach. Increased risk of fire or explosion.
- **10.2.** Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- **10.3.** Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- **10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.
- **10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen compounds.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1. Information on Toxicological Effects - Product

Acute Toxicity: Not considered acutely toxic.

LD50 and LC50 Data:

MSD GOLD Read Buffer A, Read Buffer T (2X) and PQ Negative Control	
ATE US (oral)	2667 mg/kg body weight

**Skin Corrosion/Irritation:** May cause skin irritation.

Serious Eye Damage/Irritation: Causes serious eye damage. pH: 7.3 - 8

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

**Teratogenicity:** Not available **Carcinogenicity:** Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

### 11.2. Information on Toxicological Effects - Ingredient(s)

### LD50 and LC50 Data:

Tripropylamine (102-69-2)		
LD50 Oral Rat	96 mg/kg	
LD50 Dermal Rat	430 mg/kg	
LC50 Inhalation Rat	5100 mg/m³ (Exposure time: 4 h)	
LC50 Inhalation Rat	1.125 mg/l/4h	
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy- (9002-93-1)		
LD50 Oral Rat	1800 mg/kg	

## **SECTION 12: ECOLOGICAL INFORMATION**

## 12.1. Toxicity

Ecology - General: Not classified.

Tripropylamine (102-69-2)	
LC50 Fish 1	45.6 - 56.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy- (9002-93-1)	
LC50 Fish 1	3 mg/l

### 12.2. Persistence and Degradability

MSD GOLD Read Buffer A, Read Buffer T (2X) and PQ Negative Control	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

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MSD GOLD Read Buffer A, Read Buffer T (2X) and PQ Negative Control		
<b>Bioaccumulative Potential</b>	Not established.	
Tripropylamine (102-69-2)		
Log Pow	2.79	

12.4. **Mobility in Soil** Not available 12.5. Other Adverse Effects Not available

### **SECTION 13: DISPOSAL CONSIDERATIONS**

### Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Handle empty containers with care because residual vapors may be flammable.

**Ecology – Waste Materials:** Avoid release to the environment.

### **SECTION 14: TRANSPORT INFORMATION**

- 14.1. **In Accordance with DOT** Not regulated for transport
- 14.2. In Accordance with IMDG Not regulated for transport
- 14.3. In Accordance with IATA Not regulated for transport
- 14.4. **In Accordance with TDG** Not regulated for transport

### **SECTION 15: REGULATORY INFORMATION**

## 15.1. US Federal Regulations

MSD GOLD Read Buffer A, Read Buffer T (2X) and PQ Negative Control	
SARA Section 311/312 Hazard Classes Flammable liquid	
	Skin irritation
	Serious eye damage
Tripropylamine (102-69-2)	

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride (1185-53-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- (9002-93-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

#### **15.2. US State Regulations**

### Tripropylamine (102-69-2)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### **15.3. Canadian Regulations**

### Tripropylamine (102-69-2)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 1 %

## 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride (1185-53-1)

Listed on the Canadian DSL (Domestic Substances List)

### Potassium chloride (7447-40-7)

Listed on the Canadian DSL (Domestic Substances List)

## Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- (9002-93-1)

Listed on the Canadian DSL (Domestic Substances List)

Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 1 %

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 01Apr2020

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

### **GHS Full Text Phrases:**

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

### Party Responsible for the Preparation of This Document

Meso Scale Diagnostics T 240-314-2600

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS

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