

# **Safety Data Sheet**

## **RayBiotech Smartlight Chemiluminescent HRP Membrane/Blotting Substrate**

Version 1

Revision Date: 08/27/2016

### **1. Identification of the substance/mixture and of the company/undertaking**

#### **1.1 Product identifiers**

Product name: RayBiotech Smartlight Chemiluminescent HRP Membrane/Blotting Substrate

Product Form: Mixture

Product Number: RB-SMRTLGT

#### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/ mixture: For *in vitro* research and manufacturing use only

#### **1.3 Details of the supplier of the safety data sheet**

RayBiotech

3607 Parkway Lane

Suite 200

Norcross, GA 30092

USA

Phone: 770-729-2992

#### **1.4 Emergency telephone number**

Emergency number: CHEMTREC: 1-800-424-9300 (US and Canada) / 1-703-527-3887 (International)

### **2. Hazards identification**

#### **2.1 Classification of the substance or mixture**

Classification (GHS-US): Not classified

#### **2.2 Label elements GHS-US labeling**

Not a hazardous substance or mixture

#### **2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

None

#### **2.4 Unknown acute toxicity (GHS-US)**

No data available

### **3. Composition/information on ingredients**

#### **3.1 Substance**

Not applicable

### **3.2. Mixture**

No components need to be disclosed according to the applicable regulations

## **4. First aid measures**

### **4.1 Description of first aid measures**

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration

In case of skin contact: Wash off with soap and plenty of water

In case of eye contact: Flush eyes with water as a precaution

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water

### **4.2 Most important symptoms and effects, both acute and delayed**

Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact: May cause skin irritation.

Symptoms/injuries after eye contact: May cause slight temporary irritation.

Symptoms/injuries after ingestion: May cause gastrointestinal irritation.

Chronic symptoms: No data available

### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available

## **5. Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

### **5.2 Special hazards arising from the substance or mixture**

Nature of decomposition products not known.

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **5.4 Further information**

No data available

## **6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas. For personal protection see section 8

#### **6.1.1 For non-emergency personnel**

Protective equipment: Wear Protective equipment as described in Section 8

Emergency procedures: Evacuate unnecessary personnel

### **6.1.2 For emergency responders**

Protective equipment: Wear suitable protective clothing, gloves and eye or face protection; approved air respirator, in case of emergency

### **6.2 Environmental precautions**

No special environmental precautions required

### **6.3 Methods and materials for containment and cleaning up**

Keep in suitable, closed containers for disposal

### **6.4 Reference to other sections**

For disposal see section 13.

## **7. Handling and storage**

### **7.1 Precautions for safe handling**

Use appropriate personal protection equipment (PPE); Keep away from sources of ignition; Wash hands and other exposed areas with mild soap and water before eating and drinking; For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated area. Recommended storage temperature 2-8 °C; Light sensitive; Storage class (TRGS 510) - Non Combustible Liquids

### **7.3 Specific end use(s)**

No other information available

## **8. Exposure controls/personal protection**

### **8.1 Control parameters**

No data available

### **8.2 Exposure controls**

**Appropriate engineering controls:** General industrial hygiene practice.

#### **Personal protective equipment**

**Eye/face protection:** Chemical goggles or safety glasses

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Respiratory protection:** Where excessive vapor, mist, or dust may result, use NIOSH approved respiratory protection

**Body Protection:** Lab coat. Wear suitable protective clothing. Wear long sleeves

**Control of environmental exposure:** No special environmental precautions required.

## **9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Physical state: Liquid  
Color: Clear to Slight Pink  
Odor: None  
Odor Threshold: No data available  
pH: 8.2 – 9.2  
Melting point/freezing point: No data available  
Initial boiling point and boiling range: No data available  
Flash point: No data available  
Evaporation rate: No data available  
Flammability (solid, gas): No data available  
Upper/lower flammability or explosive limits: No data available  
Vapor pressure: No data available  
Vapor density: No data available  
Relative density: No data available  
Water solubility: Complete  
Partition coefficient: n-octanol/water: No data available  
Auto-ignition temperature: No data available  
Decomposition temperature: No data available  
Viscosity: No data available  
Explosive properties: Not explosive  
Oxidizing properties: Not an oxidizer

## **9.2 Other safety information**

No data available

## **10. Stability and reactivity**

### **10.1 Reactivity**

No data available

### **10.2 Chemical stability**

Stable under recommended storage conditions

### **10.3 Possibility of hazardous reactions**

No data available

### **10.4 Conditions to avoid**

No data available

### **10.5 Incompatible materials**

Strong oxidizing agents

### **10.6 Hazardous decomposition products**

Carbon dioxide, carbon monoxide, nitrogen oxides

## **11. Toxicological information**

### **11.1 Information on toxicological effects**

Acute toxicity: No data available

Inhalation: No data available  
Dermal: No data available  
Skin corrosion/irritation: No data available  
Serious eye damage/eye irritation: No data available  
Respiratory or skin sensitization: No data available  
Germ cell mutagenicity: No data available  
Carcinogenicity: Not classified  
Reproductive toxicity: Not classified  
Specific target organ toxicity (single exposure): Not classified  
Specific target organ toxicity (repeated exposure): Not classified  
Aspiration hazard: Not classified  
Symptoms/injuries after inhalation: May cause respiratory irritation.  
Symptoms/injuries after skin contact: May cause skin irritation.

Symptoms/injuries after eye contact: May cause slight temporary irritation.  
Symptoms/injuries after ingestion: May cause gastrointestinal irritation.  
Chronic symptoms: No data available  
Additional Information: RTECS not available

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

## **12. Ecological information**

### **12.1 Toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

### **12.5 Other adverse effects**

No additional information available

## **13. Disposal considerations**

### **13.1 Waste treatment methods**

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.  
Contaminated packaging: Dispose of as unused product.

## **14. Transport information**

DOT (US): Not dangerous goods  
IMDG: Not dangerous goods

IATA: Not dangerous goods

## **15. Regulatory information**

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA 313 Components:** this material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act

**Pennsylvania Right To Know Components:** Non hazardous component(s) liquid

**New Jersey Right To Know Components:** Non hazardous component(s) liquid

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

## **16. Other information**

### **HMIS Rating**

Health hazard: 0

Chronic Health Hazard: 0

Flammability: 0

Physical Hazard: 0

### **NFPA Rating**

Health hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

Revision 1; New SDS Created; Revision date: 27 August 2016

### **Other information**

The above information is believed to be correct and may not be all conclusive; however, it should only be used as a guide. RayBiotech makes no representation of its accuracy or completeness. Recipients of this information must exercise their independent judgment in determining the product's safety and suitability for its intended use. RayBiotech shall not be held liable for any damage resulting from handling or contact with this above product. These products are for research and manufacturing use only and are not intended for use in humans, therapeutic or diagnostic purposes. Sales are without any seller's warranty or representation, expressed or implied, by usage or otherwise; no claims beyond replacement of unacceptable material or refund of purchase price shall be allowed. All claims must be made within 30 days following date of delivery