

# Material Safety Data Sheet

OptiMax™ Streptavidin-Poly-Horseradish Peroxidase Conjugate  
(SAv-Poly-HRP)



## 1. Product and Company Identification

Product Name	OptiMax™ Streptavidin-Poly-Horseradish Peroxidase Conjugate (SAv-Poly-HRP)
Product Number	Poly-HRP
MSDS Number	0014
Validation Date	January 30, 2013
Print Date	January 30, 2013
Company	Siloam Biosciences, Inc.
Address	413 Northland Blvd Cincinnati, OH 45240 United States
Telephone	+1 513 429 2976
Fax	+1 513 429 2946
Emergency Phone	+1 513 429 2976 (Monday-Friday, 8:00AM-5:00PM, ET)
Use of Substance/Preparation	Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.
Product Supplier	OptiMax™ Streptavidin-Poly-Horseradish Peroxidase Conjugate (SAv-Poly-HRP) is supplied by U-CyTech BV.

## 2. Hazards Identification

**Classification of the product** The product is not classified as hazardous according to Regulation (EC) no. 1272/2008 and to Directive 1999/45/EC and its amendments.

### Lable Elements

Pictogram	None
Signal word	None
Hazard statement(s)	None
Precaution statement(s)	None

### Other hazards

None

See toxicological information (Section 11)

## 3. Composition/Information on Ingredients

**Product name** OptiMax™ Streptavidin-Poly-Horseradish Peroxidase Conjugate (SAv-Poly-HRP)

## **OptiMax™ Streptavidin-Poly-Horseradish Peroxidase Conjugate (SAv-Poly-HRP)**

### Synonyms

Streptavidin-HRP polymer, Streptavidin peroxidase polymer

### Ingredients

Cas no.	EC no.	Index no.	Classification	Concentration
Streptavidin – Horseradish peroxidase polymer				
-	-	-	-	< 1%
Serum albumin				
9048-46-8	232-936-2	-	-	1%
Trehalose, dehydrate (C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> •2H <sub>2</sub> O)				
6138-23-4	202-739-6	-	-	<5%

There are no ingredients or additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## **4. First Aid Measures**

### General advice

Consult physician. Show this MSDS to the doctor in attendance.

### After contact with skin

Wash contaminated area with soap and water. Remove contaminated clothing and shoes. Consult a physician.

### After swallowing

If the person is conscious, wash out mouth with water. Consult a physician.

### After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids. Consult a physician.

### After inhalation

Provide fresh air. If breathing becomes difficult, consult a physician.

See section 11 for more detailed information on health effects and symptoms.

## **5. Fire-fighting Measures**

### Extinguishing Media

#### Suitable

Water spray, carbon dioxide, dry chemical powder or alcohol-resistant foam.

#### Not Suitable

None known.

### Special Hazards/Risks

Carbon oxides, oxides of phosphorus, sodium oxides.

### Special Protective Equipment for Fire-Fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## **6. Accidental Release Measures**

### Personal Precautions

Use personal protective equipment to avoid exposure. Avoid formation of dust and aerosols. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation. Follow general safety rules for laboratories. Evacuate personnel to safe areas in case of an emergency.

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<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>Clean-up methods</b>	Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal (section 13).

## **7. Handling and Storage**

<b>Safe Handling</b>	Only for laboratory use. Use personal protective equipment to avoid (prolonged or repeated) exposure. Avoid formation of dust and aerosols. Ensure adequate ventilation. Follow general safety rules for laboratories.
<b>Safe Storage</b>	Store at -20°C in a dry and well-ventilated place. Keep container tightly closed.

## **8. Exposure Control/Personal Protection**

Contains no substances with occupational exposure limit values.

### Appropriate engineering controls and hygiene measures

Facilities storing or utilizing this product should be equipped with an eyewash facility, a safety shower and mechanical exhaust. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

### Personal protective equipment

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) 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.

#### Eye protection

The selected safety glasses have to have side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

#### Skin and body protection

The selected clothing has to be impervious.

## **9. Physical/Chemical Properties**

<b>Physical State</b>	Solid (lyophilized)
<b>Color</b>	White

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Odor No data available

### **10. Stability and Reactivity**

Chemical Stability Stable under recommended storage conditions.  
Conditions to Avoid No data available.  
Incompatible Materials No data available.  
Hazardous Reactions / Decomposition Products No data available.

### **11. Toxicological Information**

Acute Toxicity No data available.  
Irritation and Corrosion (skin and eyes) No data available.  
Sensitization (skin and respiratory) No data available.  
Germ cell mutagenicity No data available.  
Carcinogenicity No data available.  
Reproductive toxicity No data available.  
Specific target organ toxicity (single and repeated) No data available.  
Aspiration hazard No data available.

#### Signs and symptoms of exposure

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

#### Potential health effects

Inhalation May be harmful if inhaled and may cause respiratory tract irritation.  
Skin May be harmful if absorbed through skin and may cause skin irritation.  
Eyes May cause eye irritation.  
Ingestion May be harmful if swallowed.

Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

#### Additional information

RTECS Not available.

### **12. Ecological Information**

Toxicity No data available.  
Persistence and degradability No data available.  
Bio accumulative potential No data available.  
Mobility in soil No data available.

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Results of PBT and vPvB assessment      No data available.  
Other adverse effects                              No data available.

**13. Disposal Considerations**

**Product**                                      The generation of waste should be avoided or minimized whenever possible.  
**Packaging**                                    Dispose of as unused product.  
Disposal should be in accordance with applicable regional, national, and local laws and regulations.  
Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

**14. Transport Information**

This product is not dangerous for road (ARD), rail (RID), inland waterways (ADNR), sea (IMDG) and air (ICAO/IATA) transport. UN number is not available.

**15. Regulatory Information**

This product is not classified as dangerous according to EU legislation.

**16. Other Information**

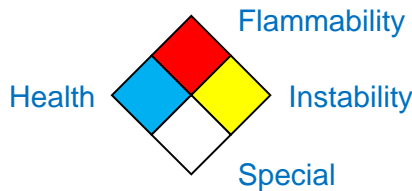
**Label Requirements**                      MAY CAUSE RESPIRATORY TRACT, EYE, AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.

**Hazardous Material Information System (U.S.A.)**

Health	
Flammability	
Physical Hazards	

**The customer is responsible for determining the PPE code for this material.**

**National Fire Protection Association (U.S.A.)**



**Date of Printing**                              **January 29, 2013**  
**Date of Issue**                                    **January 29, 2013**  
**Date of Previous Issue**                      **Not Applicable.**  
**Version**    **A0**

Indicates information that has changed from previously issued version.

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