

## Safety Data Sheet (SDS) for Recombinant Influenza Hemagglutinin (H1 Puerto Rico) Full-Length Glycoprotein Supplied in a Solution of 20mM Tris, NaCl, and non-ionic surfactant

### 1 - Identification of the substance / preparation and of the company

<b>Product name</b>	<b>Influneza rHA GA (H1 Puerto Rico)</b>
<b>Supplier identification</b>	Integrated Biotherapeutics, LLC 4 Research Court, Suite 300 Rockville, MD 20850 USA Tel: 1-240-778-6515 Fax: 1-301-515-0324

### 2 – Hazards identification

**Classification of Product** There is no hazard profile available for **Influneza rHA GP (H1 Puerto Rico)**. Please use general precautions when handling this product.

**OSHA Hazards Target**  
Organ Effect **Target**  
**Organs** Kidney

**Hazard Statements**  
Causes skin irritation  
Causes eye irritation

**HMIS Classification**  
**Health Hazard:** 0  
**Flammability:** 1  
**Physical Hazards:** 0  
**NFPA Rating**  
**Health Hazard:** 0  
**Fire:** 1  
**Reactivity Hazard:** 0

**Potential Health Effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if adsorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation
<b>Ingestion</b>	May be harmful if swallowed.

### 3 – Composition/information on hazardous ingredients

Component	Chemical name	% Conc.	CAS#	EC#
Protein	rHA GP	0.213 mg/mL	None	None
Buffer	Tris Buffer	pH 7.4	None	None
Sodium Chloride	NaCl	150 mM	None	None
Non-ionic surfactant	N/A	0.01%	None	None

### 4 - First aid measures

<b>Eye contact</b>	In case of eye contact, flush with copious amounts of water for at least 15 minutes. Seek medical attention if irritation occurs.
<b>Skin contact</b>	In case of skin contact, flush with copious amounts of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention if necessary.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if necessary.
<b>Ingestion</b>	If swallowed, wash out mouth with water. Consult a physician.

### 5 - Fire fighting measures

<b>Suitable extinguishing media</b>	Suitable: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide
<b>Special risks</b>	Hazardous decomposition products formed under fire conditions (carbon oxides).
<b>Special Protective Equipment</b>	Wear self-contained breathing apparatus for firefighting if necessary.

### 6 - Accidental release measures

<b>Personal precautions</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
<b>Environmental precautions</b>	Do not let product enter drains.
<b>Disposal</b>	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 7 - Handling and storage

<b>Handling</b>	Avoid inhalation. Avoid contact with skin and eyes.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.
<b>Special requirements</b>	

## 8 - Exposure controls / personal protection

<b>Respiratory protection</b>	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.
<b>Hand protection</b>	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.
<b>Eye protection</b>	Safety glasses with 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).
<b>Other precautions</b>	Wash contaminated clothing before reuse. Wash thoroughly after handling.

## 9 - Physical and chemical properties

<b>Form</b>	Liquid
<b>Color</b>	Colorless

## 10 - Stability and reactivity

<b>Stability</b>	Stable under normal storage and handling conditions.
<b>Hazardous decomposition products</b>	Under fire conditions – carbon oxides. No data available on other decomposition products.

## 11 - Toxicological information

<b>Skin contact</b>	May cause skin irritation.
<b>Eye contact</b>	May cause eye irritation.
<b>Inhalation</b>	May cause irritation
<b>Ingestion</b>	Harmful if swallowed.

## 12 - Ecological information

<b>Ecotoxicological effects</b>	No data available
<b>Other</b>	

### 13 - Disposal considerations

**SUBSTANCE DISPOSAL:** Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

### 14 - Transport information

<b>ADR/RID</b>	Not classed as dangerous in the meaning of transport regulations
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

### 15 - Regulatory information

#### OSHA Hazards

Target Organ Effect

United States Regulatory Information

Sara Listed: No

### 16 - Other information

**Key/Legend**                    ADR/RID = European Agreement of Dangerous Goods by Road/Rail; CAS# = Chemical Abstract Service number; EC# = EC number (EINECS or ELINCS); EEC = European Economic Community; EU = European Union; IATA = International Air Transport Association  
NA = Non applicable

**SDS revised**                    April 27, 2017

**Disclaimer:** The information contained in this Safety Data Sheet 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.

Integrated Biotherapeutics, Inc shall not be held responsible for any damage resulting from the use of the above product or the information contained in this safety data sheet.