

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - Product and Company Information

**Product name:** HBsAg (adw) Recombinant Protein  
**Company:** Abnova (Taiwan) Corporation  
**Address:** No. 326-8, Sec. 4, Zhongzheng Rd. Zhongli Dist., Taoyuan City 320 Taiwan.  
**Telephone:** +886-3-4989228  
**Fax:** +886-3-4989665, +886-3-4989695

### SECTION 2 - Hazards Identification

#### GHS Classification of substances and mixtures

Not hazardous. May cause eye or skin irritation in susceptible individuals. May be harmful if swallowed or inhaled.

#### Signal Word

Not hazardous.

#### Other Information

No other information available

### SECTION 3 - Composition/Information on Ingredient

At the concentration of the chemicals in the aqueous solution provided, the protein is considered Nonhazardous.

<b>Chemical Components</b>	<b>Description</b>
HBsAg adw	Recombinant protein, 50 µg
KH <sub>2</sub> PO <sub>4</sub>	33.6 µg
NaCl	2 mg
Na <sub>2</sub> HPO <sub>4</sub>	33.6 µg

### SECTION 4 - First aid measures

#### Description of first aid measures

##### Swallowed:

Rinse mouth with water then drink copious amounts of water.

##### Eye:

Wash continuously with water for 15 minutes.

##### Skin:

Immediately wash skin with soap and water. Wash contaminated clothing.

##### Inhaled:

Remove to fresh air.

First Aid Facilities:

Eye bath

Physician's note:

Treat symptomatically.

## **SECTION 5 - Fire fighting measures**

**Extinguishing media:**

None

**Special Firefighting Procedures:**

None

**Unusual Fire and Explosions Hazards:**

None

## **SECTION 6 - Accidental release measures**

**Spill Response**

Absorb with paper towel and dispose into biohazard waste

**Containment**

None

**Personal Precautions and Equipment**

Gloves, Protective goggles, laboratory coat

**Emergency Procedures**

Avoid direct skin and eye contact when cleaning up

## **SECTION 7 - Handling and storage**

**Recommendations for Safe Storage**

No special precautions for personal safety

**Additional Storage Information**

None

**Precautions for Safe Handling**

Use Safe Laboratory Practice.

**Additional Precautions for Handling**

None

## **SECTION 8 - Exposure Controls**

**Exposure Limits**

No data

**Engineered Environmental Controls Needed**

No special controls needed

**Personal Protective Measures**

Use Safe Laboratory Practice, protective gloves, goggles, laboratory coat

**Special Requirements**

None

**SECTION 9 - Physical and chemical properties**

**Physical State** Aqueous Solutions

**Odor** None

**Solubility in Water** Good

**Specific Gravity** No data

**pH** Neutral

**Boiling Point** No data

**Melting Point** No data

**Flash Point** No data

**Vapor Pressure** No data

**Vapor Density** No data

**SECTION 10 - Stability and reactivity****Reactivity**

Compounds considered non-dangerous at concentrations given.

**Chemical Stability**

Stable

**Hazardous Reactions or Polymerizations**

Will not occur.

**Hazardous Decomposition Products:**

None. Burning can produce oxides of carbon and nitrogen.

**Incompatible Materials**

None known

**SECTION 11 - Toxicological information****Likely Routes of Exposure**

None if properly handled. Accidental routes include skin, eyes, and mouth. Accidental exposure might cause a reaction in susceptible individuals.

**Effects of Exposure**

None known, general class of similar chemical solutions have no toxic, carcinogenic, or mutagenic effects.

**Toxicity Data and LD50**

None known at concentrations provided.

#### **SECTION 12 - Ecological information**

No data available

#### **SECTION 13 - Disposal Considerations**

Dispose of in accordance with local regulations.

#### **SECTION 14 - Transport information**

No data available

#### **SECTION 15 - Regulatory information**

No data available

#### **SECTION 16 - Other Information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Abnova shall not be held liable for any damage resulting from handling or from contact with the above product.