

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b>	Anti-Retinoic Acid Receptor $\beta$ antibody
<b>Product Cat#:</b>	AB-07-2065
<b>Recommended use:</b>	For research use only
<b>Company identification:</b>	Erpan Info Tech (Shanghai) CO., LTD
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## 2. HAZARDS IDENTIFICATION

According to 29 CFR 1910.200 (d), hazardous ingredients at less than 1 % and carcinogens at less than 0.1 % are considered non-hazardous. Any hazardous or carcinogenic ingredients exceeding these criteria are listed below.

**This product may contain the following hazardous ingredients.**

Ingredient	CAS#	Percent
Glycerol	56-8 -5	50%
Sodium azide	26628-22-8	0.1%

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Composition of ingredients

Antibody protein

### 3.2 Information to be disclosed

No components need to be disclosed according to the applicable regulations.

## 4. FIRST AID MEASURES

### 4.1 Eyes

In case of eye contact, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

### 4.2 Skin

In case of skin contact, immediately wash skin with soap and copious amounts of water.

### 4.3 Ingestion

If swallowed, rinse mouth with water provided person is conscious. Call a physician.

### 4.4 Inhalation

If breathed in, move person into fresh air. If breathing becomes difficult, call a physician.

### 4.5 Chronic

N/A

### 4.6 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### 5.1 Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Firefighting

Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1** Prevent direct contact with skin or eyes and avoid breathing vapors or dusts. Keep closed containers for disposal and do not let product enter drains. Absorb liquid with an absorbent material. Transfer contaminated absorbent to a chemical waste container for disposal. Ensure adequate ventilation.

### 6.2 Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, universal binder, sawdust).

### 6.3 Environmental precautions

Prevent further leakage or spillage if it is safe to do so.

## 7. HANDLING AND STORAGE

### 7.1 Handling

Avoid inhalation.

Avoid contact with eyes, skin, and clothing.

Avoid prolonged exposure.

## **7.2 Storage**

Keep container tightly closed in a dry and well-ventilated place.

Storage stability: stable

Recommended storage temperature: -20 °C

## **8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

**This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.**

### **8.1 Exposure guidelines**

This product does not contain any hazardous materials with occupational exposure limits.

### **8.2 Engineering control**

Showers

Eyewash stations

Ventilation systems

### **8.3 Personal protective equipment**

Respiratory protection is not required. Where protection from nuisance levels of dusts is desired, use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Handle with protective gloves.

Wear chemical safety goggles.

Wear impervious clothing.

### **8.4 General hygiene measures:**

Wash hands thoroughly after handling.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Liquid	Color	Transparent
Odor	N/A	PH	7.4
Vapor pressure/density	N/A	Viscosity	N/A
Boiling point	N/A	Freezing/melting points	N/A
Auto-ignition temp.	N/A	Flash point	N/A
Explosion limits, lower	N/A	Explosion limits, upper	N/A
Decomposition temp.	N/A	Solubility in water	N/A
Specific gravity/density	N/A	Molecular formula	N/A
Molecular weight	N/A	Oxidizing properties	N/A

## **10. STABILITY AND REACTIVITY**

### **10.1 Chemical stability:**

Stable under recommended storage conditions

### **10.2 Incompatible materials**

None in particular

### **10.3 Conditions to avoid**

Heat, flames and sparks

### **10.4 Hazardous decomposition products:**

N/A

### **10.5 Hazardous polymerization:**

Hazardous polymerization does not occur.

## **11. TOXICOLOGICAL INFORMATION**

### **11.1 Acute toxicity**

Product does not present an acute toxicity hazard based on known or supplied information.

### **11.2 Inhalation**

There is no data available for this product.

### **11.3 Eye contact**

There is no data available for this product.

### **11.4 Skin contact**

There is no data available for this product.

### **11.5 Ingestion**

There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium azide	27 mg/kg ( Rat )	50 mg/kg ( Rat ) 20 mg/kg ( Rabbit)	No information available

#### 11.6 Chronic toxicity

Sensitization	No information available
Corrosivity	No information available
Neurological effects	No information available
Target Organ Effects	No information available
mutagenic effects	No information available
Reproductive toxicity	No information available

### 12. ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

The environment effect of this product has not been fully investigated.

#### 12.2 Chemical name: Sodium azide

**Toxicity to algae:** No information available

**Toxicity to fish:** No information available

**Toxicity to microorganisms:** No information available

**Toxicity to daphnia and other aquatic invertebrates:** No information available

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Dispose of in accordance with local regulations.

#### 13.2 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

The substance is not subject to IATA, IMDG and DOT (US).

### 15. REGULATORY INFORMATION

#### 15.1 Chemical safety assessment:

N/A

#### 15.2 Safety, health and environmental regulations and regulations specific to this substance/mixture

Applicable to regulations

#### 15.3 CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### 16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. For further information please contact [www.erpantech.com](http://www.erpantech.com).