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**SECTION 1: COMPANY AND PRODUCT INFORMATION**

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**1.1 Product identifiers**

Product name : Ovalbumin  
Product code : 22070013  
CAS number : 9006-59-1  
Synonyms : Albumin from hen egg white; Ovalbumin

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

Identified uses : Laboratory chemicals, manufacture of substances

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

Address : Genelix International Inc, dba bioWORLD  
4150 Tuller Rd. Suite 228  
Dublin, OH 43017

Email : tech@bio-world.com

Phone : 614-792-8680, Toll free: 1-888-bio-PLUS

Fax : 614-792-8685

**1.4 Emergency telephone number**

Emergency phone : 1-888-bio-PLUS

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**SECTION 2: HAZARDS IDENTIFICATION**

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**2.1 Classification of substance or mixture**

Respiratory sensitisation (Category 1), H334

**2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Resp. Sens. - Respiratory sensitisation

**2.3 Label elements and precautionary statements**

Pictogram : 

Signal word : Danger

Hazard statement(s) : H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s) : P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P285 In case of inadequate ventilation wear respiratory protection.  
P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.  
P501 Dispose of contents/ container to an approved waste disposal plant.

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

No unclassified hazards known.

## 2.5 NFPA Rating

Health hazard : 2

Fire hazard : 0

Reactivity hazard : 0

## 2.6 HMIS Rating

Health hazard : 2

Chronic health hazard : 0

Reactivity hazard : 0

Flammability : 0

Physical hazard : 0

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### 3.1 Substances

Substance	CAS#	EC#	Concentration
Ovalbumin M.F: Not available M.W: Not available	9006-59-1	232-692-7	<= 100 %

### 3.2 Hazardous components & classification

Resp. Sens. 1; H334

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## SECTION 4: FIRST AID MEASURES

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### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### In case of inhalation

If inhaled, move person to fresh air and monitor breathing. If not breathing, give artificial ventilation. Consult a physician if symptoms are severe or persistent.

#### In case of skin contact

Immediately wash with excess soap and water. If spilled on clothing, remove all affected clothing. Consult a physician if symptoms are severe or persistent.

#### In case of eye contact

Flush eyes with water or eye wash solution as a precaution for 15 minutes. Consult a physician if symptoms are severe or persistent.

#### In case of ingestion

Only induce vomiting if recommended by medical personnel. If subject is unconscious, do not give anything by mouth. If conscious, rinse mouth with water. Consult a physician if symptoms are severe or persistent.

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

The most important known symptoms and effects are described in the labeling section.

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

No special treatment indicated. Provide treatment in accordance with exhibited systems.

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### SECTION 5: FIREFIGHTING MEASURES

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#### 5.1 Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide are suitable

#### 5.2 Unsuitable extinguishing media

Not available

#### 5.3 Special hazards arising from the substance

No special hazards are known to exist regarding combustion of this product.

#### 5.4 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**For personal protection see section 8**

#### 6.2 Environmental precautions

Prevent product from entering public sewers and waterways.

#### 6.3 Methods and material for containment and cleaning up

Use inert absorbent material to absorb any spilled or leaked product. Keep in suitable, closed containers for disposal.

**For proper disposal see section 13**

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### SECTION 7: HANDLING AND STORAGE

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#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

**For precautions see section 2**

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

Storage conditions : Keep container tightly closed in a dry and well-ventilated place.  
Recommended storage temperature 2 - 8 °C  
Keep in a dry place.  
Storage class (TRGS 510): Non Combustible Solids

Incompatible materials : Not available

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

## 8.2 Engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 8.3 Personal protective equipment

- Eye/face protection : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin protection : 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.
- Body protection : Complete suit protecting against chemicals- The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory protection : For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- Control of environmental exposure : Do not let product enter drains.
- General hygiene considerations : Practice good chemical hygiene during and after use.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

- a) Appearance : beige powder
- b) Physical states : Solid
- c) Odor : Not available
- d) Odor threshold : Not available
- e) Melting point : Not available
- f) Boiling point range : Not available
- g) pH : Not available
- h) Density : Not available
- i) Flash point : Not available
- j) Evaporation rate : Not available
- k) Flammability : Not available
- l) Upper/lower flammability or explosive limits: : Not available
- m) Vapor pressure : Not available

- n) Vapor density : Not available  
o) Relative density : Not available  
p) Water solubility : Not available  
q) Partition coefficient:n-octanol/water : Not available  
r) Autoignition temperature : Not available  
s) Decomposition temperature : Not available  
t) Kinematic viscosity : Not available  
u) Explosive properties : Not available  
v) Oxidizing properties : Not available  
w) Solubility in other solvents : Not available  
x) Surface tension : Not available
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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1 Reactivity

No special reactivity is known. Non-reactive under normal use.

### 10.2 Chemical stability

Product is stable when stored as recommended.

### 10.3 Stability note(s)

No special or unusual instability known.

### 10.4 Polymerization

No known polymerization possible.

### 10.5 Possibility of hazardous reactions

No known hazardous reactions are possible.

### 10.6 Incompatible materials

Strong oxidizing agents

### 10.7 Hazardous decomposition products

Other decomposition products - Not available

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1 Acute toxicity

- LD50 Oral : LD50 Oral - Mouse - > 24,000 mg/kg  
Remarks:  
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye Ptosis.  
Behavioral:Somnolence (general depressed activity).  
Respiratory disorder
- LD50 Dermal : No toxicity data available.
- LC50 Inhalation : TCLo Inhalation - Rat -  
Remarks:  
Biochemical: Metabolism (intermediary): Effect on inflammation or mediation of inflammation.

## 11.2 Skin corrosion/irritation

No skin/corrosion irritation data available.

## 11.3 Serious eye damage/eye irritation

No eye damage/irritation data available.

## 11.4 Respiratory or skin sensitization

No sensitization data available.

## 11.5 Germ cell mutagenicity

No mutagenicity data available.

## 11.6 Carcinogenicity

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## 11.7 Reproductive toxicity

No reproductive toxicity data available.

## 11.8 Specific target organ toxicity – single exposure

No specific organ toxicity data available.

## 11.9 Specific target organ toxicity – repeated exposure

No specific organ toxicity data available.

## 11.10 Aspiration hazard

No aspiration hazard data available.

## 11.11 Additional Information

Repeated dose toxicity - Guinea pig - Inhalation

Lungs, Thorax, or Respiration: Bronchiolar constriction.

RTECS: AY9384000

- may cause respiratory sensitization in susceptible individuals.

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## SECTION 12: ECOLOGICAL INFORMATION

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### 12.1 Toxicity

No ecological toxicity data available.

### 12.2 Aquatic toxicity

No aquatic toxicity data available.

### 12.3 Persistence and degradability

No persistence/degradability data available.

### 12.4 Bioaccumulative potential

No bioaccumulation data available.

### **12.5 Mobility in soil**

No soil mobility data available.

### **12.6 Results of PBT and vPvB assessment**

PBT/vPvB assessment Not available as chemical safety assessment not required/not conducted

### **12.7 Other adverse effect**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

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### **13.1 Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### **13.2 Packaging**

Dispose of as unused product.

### **13.3 Recommendation**

Disposal must be made according to official regulations.

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## **SECTION 14: TRANSPORTATION INFORMATION**

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### **14.1 DOT (US)**

Not dangerous goods

### **14.2 IMDG**

Not dangerous goods

### **14.3 IATA**

Not dangerous goods

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## **SECTION 15: REGULATORY INFORMATION**

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### **15.1 SARA**

SARA 302: This product and components are not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: 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.

SARA 311/312 Hazards:Acute Health Hazard

### **15.2 Clean water act (CWA)**

No chemicals are present in this product that are subject to regulation under the Clean Water Act.

### **15.3 Right to know components**

Massachusetts : No chemicals are present which require disclosure under the Massachusetts Right to Know Act.

Pennsylvania : Ovalbumin CAS-No. 9006-59-1

New Jersey : Ovalbumin CAS-No. 9006-59-1

California : This product contains no chemicals which are known to the State of  
proposition 65 California to cause cancer, or birth defects or other reproductive harm.  
components

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## **SECTION 16: OTHER INFORMATION**

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### **16.1 Disclaimer**

This product is offered by bioWORLD for research, laboratory or further manufacturing use. Not for human use or consumption. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall bio-WORLD.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if bio-WORLD.com has been advised of the possibility of such damages.

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### **16.2 Preparation Information**

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