

Asia-Pacific Biotech Developing Inc.  
MATERIAL SAFETY DATA SHEET

Date: 06/02/2011

**Section 1 - Product and Company Information**

Product Name Lycogen™  
Company Asia-Pacific Biotech Developing Inc.  
Address 806 No. 13, Western 1st St., K.E.P.Z.,  
Kaohsiung City, Taiwan.  
Technical Phone: +886-7-8232569  
Fax: +886-7-8156775  
Emergency Phone: +886-7-8232569

**Section 2 - Composition/Information on Ingredient**

Formula Principal component including  $C_{41}H_{58}O_2$ ,  
 $C_{41}H_{62}O$  etc.,.

**Section 3 - Hazards Identification**

HMIS RATING

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

NFPA RATING

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

**Section 4 - First Aid Measures**

ORAL EXPOSURE

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

INHALATION EXPOSURE

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

DERMAL EXPOSURE

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

#### EYE EXPOSURE

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

### **Section 5 - Fire Fighting Measures**

#### FLASH POINT

>200°F

#### AUTOIGNITION TEMP

N/A

#### FLAMMABILITY

N/A

#### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

#### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

### **Section 6 - Accidental Release Measures**

#### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

#### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### **Section 7 - Handling and Storage**

#### HANDLING

User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

## STORAGE

Suitable: Keep tightly closed.

Keep container closed. Store at room temp(25°C), dry place and dark shadows.

## Section 8 – Control Exposure – Personal Protection

### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Hand: Protective gloves.

Eye: Chemical safety goggles.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

## Section 9 - Physical/Chemical Properties

Appearance Physical State:	solid or viscous liquid.
Weight	mix compent
pH	N/A
BP/BP Range	N/A
MP/MP Range	67-70°C
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A

Viscosity	N/A
Surface Tension	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point	>200°F
Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	N/A
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	150 mg/ml in THF solvent, 8 mg/ml in jojoba oil.

N/A = not available

## **Section 10 - Stability and Reactivity**

### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents, UV light.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: The products of combustion Carbon monoxide, Carbon dioxide.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## **Section 11 - Toxicological Information**

### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be irritation if swallowed.

### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and properties have not been thoroughly investigated, but the toxicological properties was low have been thoroughly cell experimental investigated.

### **Section 12 - Ecological Information**

No data available

### **Section 13 - Disposal Considerations**

#### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

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. Observe all related environmental regulations.

### **Section 14 - Transport Information**

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: This substance is considered to be non-hazardous for air transport.

### **Section 15 - Regulatory Information**

#### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

#### CANADA REGULATORY INFORMATION

WHMIS Classification: No

DSL: No

NDSL: No

### **Section 16 - Other Information**

#### DISCLAIMER

For R&D, Cosmetics and health food use only. Not for other uses.

#### WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Asia-Pacific Biotech Developing Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Copyright 2011 Asia-Pacific Biotech Developing Inc. License granted to make unlimited paper copies for internal use only.