

## Material Safety Data Sheet

Version 1.0

Revision Date 11/20/2017

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Pseudolaric acid B

Product Number : CN000986

Brand : PhytoUnico

Company : Chengdu Push Bio-technology Co., Ltd.  
No.8 West Wuke second road, Wuhou District, Chengdu City, Sichuan  
Province, China

Telephone : 86-28-85370565-215

Fax : 86-28-85370565-777

Emergency Phone # : 86-28-85370565-215

### 2. HAZARDS IDENTIFICATION

#### OSHA Hazards

Toxic by ingestion.

#### GHS Label elements, including precautionary statements

Pictogram



Signal word **Danger**

Hazard statement(s)

H301 Toxic if swallowed.

H306 Suspected of damaging fertility or the unborn child.

Precautionary statement(s)

P201 Obtain special instructions before use.

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P202	Do not handle until all safety precautions have been read and understood.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P281	Use personal protective equipment as required.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician if you feel unwell.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment(see supplemental first aid instructions on this label).
P330	Rinse mouth.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

#### HMIS Classification

Health hazard: 2

Flammability: 0

Physical hazards: 0

#### NFPA Rating

Health hazard: 2

Fire: 0

Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

**Ingestion** Toxic if swallowed.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Chemical Name:** Pseudolaric acid B

**CAS#:** 82508-31-4

**Formula:**  $C_{23}H_{28}O_8$

**Molecular Weight:** 432.469

## 4. FIRST AID MEASURES

### General advice

Consult a doctor.

Show this safety data sheet to the doctor in attendance.

Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a doctor.

### In case of skin contact

Wash off with soap and plenty of water. Consult a doctor.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a doctor.

## 5. FIRE FIGHTING MEASURES

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

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Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

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## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### **Conditions for safe storage**

Keep container tightly closed.

Recommended storage temperature: 2 - 8°C

Keep in a dry place.

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

Contains no substances with occupational exposure limit values.

### **Personal protective equipment**

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99(US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Hand protection**

Handle with gloves.

**Eye protection**

Safety glasses.

**Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance:**

White solid

**Safe data**

pH	no data available
Melting point	143-144°C
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available
Solubility	Methanol, Acetontrile, DMSO

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**10. STABILITY AND REACTIVITY****Chemical stability**

Stable under recommended storage conditions.

**Conditions to avoid**

no data available

**Materials to avoid**

Strong oxidizing agents.

**Hazardous decomposition products**

Other decomposition products - no data available.

Hazardous decomposition products formed under fire conditions. - Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity data

Type of test	Route	Species	Dose
LD <sub>50</sub>	Oral	Rodent - rat	130 mg/kg
LD <sub>50</sub>	Intraperitoneal	Rodent - mouse	316 mg/kg
LD <sub>50</sub>	Intravenous	Rodent - mouse	423 mg/kg

### Other multiple dose toxicity data

no data available

### Tumorigenic data

no data available

### Mutation data

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Reproductive toxicity

Type of test	Route	Species	Dose
TD <sub>Lo</sub>	Oral	Rodent - rat	13500 ug/kg
TD <sub>Lo</sub>	Oral	Rodent - rat	2 mg/kg
TD <sub>Lo</sub>	Intravenous	Rodent - hamster	100 mg/kg

### Specific target organ toxicity - single exposure (GHS)

no data available

### Specific target organ toxicity - repeated exposure (GHS)

no data available

### Aspiration hazard

no data available

### Potential health effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed.

<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

### Toxicity

no data available

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations. 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.

### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

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## DOT (US)

UN number: 2811      Class: 6.1      Packing group: III

Proper shipping name: Toxic solids, organic, n.o.s. (Pseudolaric acid B)

Reportable Quantity (RQ)

Marine pollutant: No

Poison Inhalation Hazard: No

## IMDG

UN number: 2811      Class: 6.1      Packing group: III

EMS-No: F-A, S-A

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Pseudolaric acid B)

Marine pollutant: No

## IATA

UN number: 2811      Class: 6.1      Packing group: III

Proper shipping name: Toxic solid, organic, n.o.s. (Pseudolaric acid B)

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## 15. REGULATORY INFORMATION

### OSHA Hazards

Toxic by ingestion.

### DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

1H-4,9a-Ethanocyclohepta[c]pyran-7-carboxylic acid,

4a-(acetyloxy)-3-[(1E,3E)-4-carboxy-1,3-pentadien-1-yl]-3,4,4a,5,6,9-hexahydro-3-methyl-1-o  
xo-,7-methyl ester, (3R,4S,4aS,9aR)-

CAS-No. 82508-31-4

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA

Title III, Section 302.

### SARA 313 Components

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SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the thresh

(De Minimis) reporting levels established by SARA Title III, Section 313.

#### **SARA 311/312 Hazards**

Acute Health Hazard

#### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

#### **Pennsylvania Right To Know Components**

1H-4,9a-Ethanocyclohepta[c]pyran-7-carboxylic acid,  
4a-(acetyloxy)-3-[(1E,3E)-4-carboxy-1,3-pentadien-1-yl]-3,4,4a,5,6,9-hexahydro-3-methyl-1-o  
xo-,7-methyl ester, (3R,4S,4aS,9aR)-  
CAS-No. 82508-31-4

#### **New Jersey Right To Know Components**

1H-4,9a-Ethanocyclohepta[c]pyran-7-carboxylic acid,  
4a-(acetyloxy)-3-[(1E,3E)-4-carboxy-1,3-pentadien-1-yl]-3,4,4a,5,6,9-hexahydro-3-methyl-1-o  
xo-,7-methyl ester, (3R,4S,4aS,9aR)-  
CAS-No. 82508-31-4

#### **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## **16. OTHER INFORMATION**

This MSDS above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability 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 way shall the company 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 the company has been advised of the possibility of such damages.

