



## Material Safety Data Sheet

### Beta arbutine

#### Section 1: Identification of substance

**Product name:** Beta arbutine

**CAS No:** 497-76-7

**Chemical Name:** 4-hydroxyphenyl  $\beta$ -D-glucopyranoside

**Chemical formula:** C<sub>12</sub>H<sub>16</sub>O<sub>7</sub>

**Manufacturer/Supplier:** Wuhan BJM Pharm Inc

**Add:** No .41 Optics Valley Avenue, East Lake High-tech Development Zone, Wuhan ,China

**Tel:** 0086-27-52341789

**Fax:**0086-27-50661278

**Mail:** technical@benjaminpharmchem.com

**Web:** www.benjaminpharmchem.com

#### SECTION 2: Hazard identification

##### 2.1 Classification of the substance or mixture

Not classified.

##### 2.2 GHS label elements, including precautionary statements

<b>Pictogram(s)</b>	No symbol.
<b>Signal word</b>	No signal word
<b>Hazard statement(s)</b>	none
<b>Precautionary statement(s)</b>	
<b>Prevention</b>	none
<b>Response</b>	none
<b>Storage</b>	none
<b>Disposal</b>	none

##### 2.3 Other hazards which do not result in classification

no data available

#### SECTION 3: Composition/information on ingredients

##### 3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Beta arbutine	Beta arbutine	497-76-7	207-850-3	100%

#### SECTION 4: First-aid measures

##### 4.1 Description of necessary first-aid measures

###### If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.



#### **Following skin contact**

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

#### **Following eye contact**

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### **Following ingestion**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

#### **4.2 Most important symptoms/effects, acute and delayed**

no data available

#### **4.3 Indication of immediate medical attention and special treatment needed, if necessary**

Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand-valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR as necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. Aniline and related compounds

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

#### **5.1 Suitable extinguishing media**

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

#### **5.2 Specific hazards arising from the chemical**

no data available

#### **5.3 Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

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### **SECTION 6: Accidental release measures**

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

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### **6.2 Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

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

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.



## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

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

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure limit values

no data available

#### Biological limit values

no data available

### 8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Thermal hazards

no data available

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## SECTION 9: Physical and chemical properties and safety characteristics

<b>Physical state</b>	White powder
<b>Colour</b>	Colorless elongated prisms from moist ethyl acetate
<b>Odour</b>	no data available
<b>Melting point/freezing point</b>	12°C(lit.)
<b>Boiling point or initial boiling point and boiling range</b>	195°C/22.5mmHg(lit.)
<b>Flammability</b>	no data available



<b>Lower and upper explosion limit/flammability limit</b>	no data available
<b>Flash point</b>	136°C(lit.)
<b>Auto-ignition temperature</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>pH</b>	no data available
<b>Kinematic viscosity</b>	no data available
<b>Solubility</b>	Slightly soluble in ethyl ether; insoluble in benzene, chloroform, CS <sub>2</sub>
<b>Partition coefficient n-octanol/water</b>	log Kow = -1.35
<b>Vapour pressure</b>	1.9E-13mmHg at 25°C
<b>Density and/or relative density</b>	1.556g/cm <sup>3</sup>
<b>Relative vapour density</b>	no data available
<b>Particle characteristics</b>	no data available

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## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

no data available

### **10.2 Chemical stability**

no data available

### **10.3 Possibility of hazardous reactions**

no data available

### **10.4 Conditions to avoid**

no data available

### **10.5 Incompatible materials**

no data available

### **10.6 Hazardous decomposition products**

no data available

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## **SECTION 11: Toxicological information**

### **Acute toxicity**

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

### **Skin corrosion/irritation**

no data available

### **Serious eye damage/irritation**

no data available

### **Respiratory or skin sensitization**



no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**STOT-single exposure**

no data available

**STOT-repeated exposure**

no data available

**Aspiration hazard**

no data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

An estimated BCF of 3 was calculated in fish for arbutin(SRC), using a log Kow of -1.35(1) and a regression-derived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is low(SRC).

**12.4 Mobility in soil**

The Koc of arbutin is estimated as 4(SRC), using a log Kow of -1.35(1) and a regression-derived equation(2). According to a classification scheme(3), this estimated Koc value suggests that arbutin is expected to have very high mobility in soil.

**12.5 Other adverse effects**

no data available

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**SECTION 13: Disposal considerations**

**13.1 Disposal methods**

**Product**





<b>Vietnam National Chemical Inventory</b>	Listed.
<b>Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)</b>	Listed.
<b>Korea Existing Chemicals List (KECL)</b>	Not Listed.

**SECTION 16: Further information**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.