# Material Safety Data Sheet

## 1. Chemicals and Corporate Identification

| | |
|---|---|
| **Product Name** | Beta Arbutin |
| **Specification** | 99% |
| **Chemical formula** | $C_{12}H_{16}O_7$ |
| **Manufacturer** | Plamed Green Science Group |
| **Address** | D302 Gazelle Valley, Pioneering R&D Park, NO.69 Jinye Road, High-tech Zone, Xi'an, China |
| **Postcode** | 710077 |
| **Telephone** | +86-29-88215350 |

## 2. Composition

pure substance√ mixture×

| Component | Synonym | CAS | EINECS | Content |
|---|---|---|---|---|
| Beta Arbutin | 4-Hydroxyphenyl-beta-D-glucopyranoside | 497-76-7 | 207-850-3 | 99.0% |

## 3. Hazards

| | |
|---|---|
| **OSHA Hazards:** | No known OSHA hazards. |
| **Health Hazard:** | Not classified as dangerous according to GHS. |
| **Hazard Class :** | N/A |
| **Hazard Pathway:** | N/A |
| **Environmental Hazard:** | N/A |
| **Blasting Hazard:** | N/A |
| **Protential Health Effects** | |
| **Inhalation** | May be harmful if inhaled. May cause respiratory tract irritation. |
| **Skin** | May cause skin discoloration. |
| **Eyes** | May cause eye irritation. |
| **Ingestion** | Safe when ingested in reasonable quantities. |

## 4. First Aid Measures

**Eyes:** Wash with water or standard eye wash solution. Consult a physician if irritation occurs and persists.

**Ingestion:** Wash mouth with Mouthwash, drink mass water.

**Skin:** Wash with soap and water.

**Inhalation:** Immediately move to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

## 5. Fire Fighting Measures

**General Information:** This material can burn if heated in confined area.
**Hazard Property:** Combustible but presents no special fire hazard.
**Hazardous Combustion Products:** N/A
**Extinguishing Media:** Water spray, Carbon dioxide, dry chemical powder or other appropriate form.
**Protective** Equipment: Self-contained breathing apparatus and protective clothing.

## 6. Accidental Release Measures

**Personal Precautions:** Ventilate area, Shut off all sources of ignition.
**Protective Equipment:** Wear appropriate protective apparatus.
**Environmental:** Contain spill.
**Emergency Treatment:** Wear protective equipment. Put into in a dry, clear and covered container when leaking.

## 7. Handling and Storage

**Handling Precautions:** Stored in cool, ventilated place. Keep far away from kindled material, heat source and direct light. Keep the container airtight. Should be separately stored form oxidant and edible chemical compound.
**Storage Precautions:** Store in sealed containers under normal cool, dry warehousing conditions.

## 8. Exposure and Personal Protection

**Engineering Controls:** Mechanical exhaust required. Safety shower and eye bath.
**Exposure Limits:** N/A
**Eye Protection:** Wear protective safety glasses.
**Body Protection:** In accordance with good industrial practice and handling protection.
**Skin Protection:** Gloves recommended.
**Other Protection:** No drinking and eating in working field.

## 9. Physical and Chemical Properties

| | | | |
|---|---|---|---|
| Physical Form | Powder | Specific Refractive | / |
| Color | White powder or acicular crystal | pH | / |
| Odor | Characteristics | Density | / |
| Flash Point | / | Water Solubility | / |
| Melting Point | / | Other Solubility | / |
| Viscosity | / | Auto Flammability | / |
| Vapor Pressure | / | Vapor Density | / |

## 10. Stability and Reactivity

**Stability:** Stable under room temperature in sealed containers and handling conditions.

**Reactivity:** React with acids and strong oxidizing agent.
**Conditions:** Do not expose to extreme heat or light.
**Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions: carbon dioxide, carbon monoxide.
**Hazardous Polymerization:** Will not occur.
**Incompatibilities with other material:** N/A

## 11. Toxicological Data

**Oral:** No any chronic effects being found so far.
**Dermal:** No any chronic effects being found so far.
**Inhalation:** No any chronic effects being found so far.
**Eye:** No any chronic effects being found so far.

## 12. Ecological Information

**Biodegradation:** No Data available yet.
**Fish Toxicity:** No Data available yet.
**Bacterial & Viral Toxicity:** No Data available yet.
**WGK Class:** WGK (Self-Classification)

## 13. Disposal Conditions

**US:** Discarded product is not a hazardous waste under RCRA,40 CFR 261.Dispose of in accordance with federal, state and local regulations.
**EC:** Dispose of according to Local, State, and Federal regulations. Keep away from direct light and hot resource.

## 14. Transport Information

**NA or UN Number:** Not regulated
**Marine Pollutant:** No
**IMDG Code/ Class:** Not Hazardous
**ICAO/IATA Air Class:** Non-Hazardous
**RID/ADR Class:** Non-Hazardous
**ADNR Class:** Non-Hazardous
**Special Precaution：** None

## 15. Regulatory Information

***SARA 302:*** No chemicals in this material are subjected to the reporting requirements of SARA Title III, Section 302.
***SARA 311/312 Hazards:*** Acute Health Hazard.
***SARA 313:*** This material does not contain any chemical components with known CAS number.
***US:*** This material is intended for use as a dietary supplements and is exempt from Toxic Substances Control Act regulation when use as such. Do not use for other purposes.
***EC:*** This product is not classified as “Dangerous” according to the health and psychical properties criteria of the EU

Directives on the classification of substance and preparations.
***Occupational Exposure Limits:*** No Data available yet.

## 16. Other Information

**Drafting Department:** Technology Department
**Drafting Date:** 13/07/2009
**Document Edition:** First editions
**Revision Note:** None
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