

## MSDS

### SECTION 1.

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| <b>Product name</b>           | Alpha Arbutin Powder                                       |
| <b>INCI name</b>              | Alpha-Arbutin 4-Hydroxyphenyl, $\alpha$ -D-glucopyranoside |
| <b>CAS #</b>                  | 84380-01-8                                                 |
| <b>Country of Origin</b>      | Switzerland                                                |
| <b>EINECS #</b>               | N/A                                                        |
| <b>Product use</b>            | Cosmetic and Industrial                                    |
| <b>Supplier</b>               | Botanic Planet Canada Inc.                                 |
| <b>Address</b>                | 2 Bram Crt Unit # 3-4 Brampton, Ontario, Canada            |
| <b>Telephone number</b>       | 905-455-4444                                               |
| <b>Emergency phone number</b> | (613)-996-6666 CANUTEC 24 HOUR EMERGENCY                   |

### SECTION 2.

#### Emergency Overview

**GHS Classification** Harmful if swallowed

**Not classified.**

GHS Label elements, including precautionary statements

**Signal: Not applicable**

Hazard statement(s)

**Not applicable.**

Precautionary statement(s)

**Not applicable.**

### SECTION 3.

| Component     | CAS No.        | Weight % | Molecular Weight |
|---------------|----------------|----------|------------------|
| Alpha-Arbutin | 84380-01-8 90- | 100%     | 272.25124 g/mol  |

### SECTION 4.

#### FIRST-AID MEASURES INHALATION EXPOSURE:

Normal inhalation is unlikely to produce adverse reactions. Use in well ventilated areas. In the event of adverse reactions. Remove to fresh air. Give oxygen and call a physician.

**EYE CONTACT:** Flush with water for 15 min without making eyes sore. Unsweetened Milk may help flush oil from eyes. Seek medical help if necessary.

**SKIN CONTACT:** Wash area with undiluted dishwashing liquid and flush with copious amounts of water. Seek medical help if necessary.

**INGESTION:** Flush from mouth with water or unsweetened milk. Administer water and call a physician or poison control center immediately. Do not induce vomiting.

### SECTION 5.

#### FIRE FIGHTING MEASURES

**Suitable extinguishing media**

Carbon Dioxide, powder or water spray.

**Special protective equipment and precautions for fire-fighters**

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

**Special hazards arising from the substance or its combustible products**

Hazardous decomposition products may be formed at extreme heat or if burned.

**Resulting gases**

Carbon oxides.

**SECTION 6.**

**ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Standard absorbents can be used.

**WASTE DISPOSAL METHOD:** Incineration or sanitary landfill in accordance with local, state, and federal regulations.

**SECTION 7.**

**HANDLING AND STORAGE HANDLING**

Avoid breathing in dust. To prevent explosion hazards, do not allow dust to settle on surfaces. It is recommend that all dust control equipment and material transport systems involved in handling of this product contain explosion relief vents or explosion suppression systems. All conductive elements of the system that contacts this material should be electrically bonded and grounded.

**STORAGE** Store in a cool, well-ventilated area.

**FIRE PROTECTION** Keep away from ignition sources and naked flame.

**SECTION 8.**

**EXPOSURE CONTROLS**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**VENTILATION:**

**PROTECTIVE GLOVES:** Rubber gloves

**EYE PROTECTION:** Splash-proof safety glasses.

**RESPIARTORY:** Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Use appropriate NIOSH approved dust respirator if PEL/TLV may be exceeded.

**OTHER PROTECTIVE EQUIPMENT:** Safety shower, eye wash

**SECTION 9.**

|                              |                    |
|------------------------------|--------------------|
| <b>Appearance, Physical</b>  | Powder             |
| <b>State:</b>                | None               |
| <b>Odor:</b>                 | No data available  |
| <b>Taste:</b>                | White, off-white   |
| <b>Color:</b>                | 272.25 g/mol       |
| <b>Molecular Weight:</b>     | 3.5-6.5            |
| <b>pH (1% sol. in water)</b> | >285° C (545° F)   |
| <b>Boiling Point:</b>        | >201° C (393.8° F) |
| <b>Melting Point:</b>        | Not applicable     |
| <b>Flash Point:</b>          | No data available  |
| <b>Specific Gravity:</b>     |                    |

|                                     |                                                                         |
|-------------------------------------|-------------------------------------------------------------------------|
| <b>Vapor Pressure:</b>              | No data available                                                       |
| <b>Vapor Density:</b>               | No data available                                                       |
| <b>Evaporation Rate:</b>            | No data available                                                       |
| <b>Upper/lower Explosive Limit:</b> | Not explosive                                                           |
| <b>Solubility:</b>                  | 151g/l at 20°C (pH 5.8)                                                 |
| <b>Flammability:</b>                | Not highly flammable<br>May form combustible dust concentrations in air |

#### SECTION 10.

STABILITY AND REACTIVITY INCOMPATIBILITIES CONDITIONS TO AVOID: No materials present special reactivity hazards.

**MATERIALS TO AVOID:** Strong oxidizing agents  
HAZARDOUS COMBUSTION PRODUCTS CO, CO<sub>2</sub>, water

#### SECTION 11.

|                                        |                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute Oral Toxicity:</b>            | LD50 (Rat): >300-<500mg/kg                                                                                                                                                            |
| <b>Skin:</b>                           | No skin irritation (Rabbit, OECD Test Guideline 404)<br>Prolonged skin contact may cause skin irritation<br>No phototoxic skin reaction (Guinea pig)                                  |
| <b>Eyes:</b>                           | Slight irritation (Rabbit, OECD Test Guideline 405)<br>The results of a test on guinea pigs showed this substance to be a weak skin sensitizer. (Guinea pig, OECD Test Guideline 406) |
| <b>Sensitization:</b>                  | No photoallergenic skin reaction (Guinea pig)                                                                                                                                         |
| <b>Respiratory:</b>                    | No respiratory toxicity classification                                                                                                                                                |
| <b>Ingestion:</b>                      | No data available                                                                                                                                                                     |
| <b>Carcinogenicity:</b>                | No indication for carcinogenicity known                                                                                                                                               |
| <b>Teratogenicity:</b>                 | Not available                                                                                                                                                                         |
| <b>Genotoxicity in vitro:</b>          | Not mutagenic (Ames test, OECD Test Guideline 471)                                                                                                                                    |
| <b>Genotoxicity in vivo:</b>           | Not genotoxic (Mouse, Mutagenicity (micronucleus test))                                                                                                                               |
| <b>Specific Target Organ Toxicity:</b> | Acute Exposure: Not classified as toxic, Repeated Exposure: No data available                                                                                                         |
| <b>Reproductive Toxicity:</b>          | No indication for adverse effects on fertility known                                                                                                                                  |
| <b>Further Information:</b>            | The product passes into and partly through the skin of pigs                                                                                                                           |

#### SECTION 12.

ECOLOGICAL INFORMATION GENERAL

Prevent contamination of soil, ground- and surface water.

#### SECTION 13.

DISPOSAL CONSIDERATION WASTE DISPOSAL METHOD: Incineration or sanitary landfill in accordance with local, state, and federal regulations.

#### SECTION 14.

TRANSPORT INFORMATION Class Pack Group Sub. Risk UN No. IMDG Page Road (U.S.-DOT): UN 1169. Air (IATA): not regulated. Sea (IMDG): not regulated.

#### SECTION 15.

REGULATORY INFORMATION EUROPEAN INFORMATION There were no toxicological studies in the published literature to assign risk and safety phrases.

REVIEWS, STANDARDS, AND REGULATIONS EPA TSCA SECTION 8(B) CHEMICAL INVENTORY LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA? NO

#### SECTION 16.



This product is a 100% pure and natural product. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information available to botanic Planet. Please refer to all relevant technical information specific to the product, prior to use. This information contained in this material safety Data sheet is obtained from current and reliable sources. As an ordinary or otherwise user(s) of this product is outside the control of Botanic Planet Canada Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use (s) (including damages or injury) or any obtained. Botanic Planet Canada Inc. expressly disclaims responsibility as to the ordinary or otherwise uses. Furthermore Botanic Planet Canada Inc. makes no claims as to the fitness for any use, and you should consider nothing container herein as a recommendation. The Liability of botanic Planet Canada Inc. is limited to the value of the goods and does not include any consequential loss. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario Canada.

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## COA

**Product:** Alpha Arbutin  
**Botanical Name/INCI:** Alpha-Arbutin  
**Lot No:** BPCAAP092023  
**Best Before:** September, 2026  
**Origin:** Switzerland

| Analytical Tests                                        | Specification                       | Results     |
|---------------------------------------------------------|-------------------------------------|-------------|
| Appearance                                              | White to off-white powder           | corresponds |
| Arbutin Content (HPLC RP18; UV 280nm)                   | >=97%                               | 98.00%      |
| Loss on Drying<br>(EP 2.2.32, Evaporation, gravimetric) | <=2%                                | 0.0%        |
| Identity by FT-IR<br>(EP 2.2.24, Michaelson prisme)     | Corresponds with reference spectrum | Corresponds |
| Optical Rotation [α] (EP 2.2.7)                         | +174 to +186°                       | 176°        |
| Heavy Metals (EP 2.4.8)                                 | < 20ppm                             | corresponds |
| Arsenic (EP 2.2.23)                                     | < 2ppm                              | corresponds |
| Total aerobic mesophilic plate count<br>(EP 2.6.12)     | < 100 CFU/g                         | corresponds |
| Specific microorganisms (Colipa)                        | Not detectable in 1g                | corresponds |

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