

**Material Safety Data Sheet**

**Alpha Arbutin msds**

**Section 1: Identification of the Substance/Preparation and of the Company/Undertaking**

**Identification of the substance or preparation**

**Product Name** : Alpha arbutin  
**INCI Name** : Alpha-arbutin  
**Product Number** : C02001B  
**CAS#** : 84380-01-8  
**ELINCS #** : 440-470-8  
**Origin** : Biotechnological  
**CAS Reg. Name** :  $\alpha$ -D-Glucopyranoside, 4-hydroxyphenyl  
**Use of the substance/preparation** : Skin whitening/lightening agent

**Company/undertaking identification**

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**Section 2: Hazards Identification**

**Emergency Overview**

**WHMIS Classification**

Not WHMIS controlled.

Not WHMIS controlled.

Not a dangerous substance according to GHS.

**HMIS Classification**

**Health hazard:** 0

**Flammability:** 0

**Physical hazards:** 0

**Potential Health Effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

### Section 3: Composition and Information on Ingredients

Synonyms	:	$\alpha$ -Arbutin
		4-Hydroxyphenyl- $\alpha$ -D-glucopyranoside
		Hydroquinone $\alpha$ -D-glucopyranoside
Formula	:	C <sub>12</sub> H <sub>16</sub> O <sub>7</sub>
Molecular Weight	:	272.25 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>4-Hydroxyphenyl-<math>\alpha</math>-D-glucopyranoside</b>			
84380-01-8	440-470-8	-	-

### Section 4: First Aid Measures

**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

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

### Section 5: Fire Fighting Measures

**Conditions of flammability**

Not flammable or combustible.

**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.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

**Explosion data - sensitivity to mechanical impact**

no data available

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**Explosion data - sensitivity to static discharge**

no data available

**Section 6: Accidental Release Measures****Personal precautions**

Avoid dust formation. Avoid breathing vapors, mist or gas.

**Environmental precautions**

Do not let product enter drains.

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

Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Section 7: Handling and Storage****Precautions for safe handling**

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

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

**Section 8: Exposure Controls/Personal Protection**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

General industrial hygiene practice.

**Specific engineering controls**

Use mechanical exhaust or laboratory fumehood to avoid exposure.

**Section 9: Physical and Chemical Properties**

**Appearance****Form****Color****Safety**

<b>pH</b>	5.0-7.0 (in 1 % water)
<b>BP/BP Range</b>	Test material and/or decomp products 285°C
<b>MP/MP Range</b>	198.0-201.0
<b>Freezing Point</b>	N/A
<b>Optical rotation</b>	+174°-184°
<b>Saturated Vapor Conc.</b>	N/A
<b>Bulk Density</b>	N/A
<b>Solubility</b>	151g/l at 20°C(pH of solution 5.8)

N/A = not available

**Section 10: Stability and Reactivity****Stability**

Chemical Stability: stable under recommended storage conditions

Materials to Avoid: Strong oxidizing agents.

**Hazardous Decomposition Products**

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

**Hazardous Polymerization**

Will not occur

**Section 11: Toxicological Information**

The substance is harmful by acute oral exposure. Rat LD50 is between 300 and 500mg/kg. The substance is not irritation to rabbit skin or eyes. The substance is not a skin sensitizer (1/10 sensitized) in a Magnusson and Kligman maximization study in the guinea pig. An Ames test was negative. The test material, at a maximum concentration of 10% w/w produced no evidence of photo toxicity or photo allergenicity. The test material, in a fourteen day repeat application dermal irritation study in the guinea pig, produced a maximum. Weekly Mean Irritation Index of 0.03 and was considered to be practically non-irritant to guinea pig skin under the conditions of the test.

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**Section 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

**Section 13: Disposal Considerations**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**Section 14: Transport Information**

**General**

Not a hazardous material

**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: Non-hazardous for air transport.

**ADR/RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**Section 15: Regulatory Information**

**United States Regulatory Information**

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SARA LISTED: No

**EU-Labeling Name**

Not listed. ( The product does not need to be labeled in accordance with EC Directive 67/548/EEC or Directive 1999/45/EC or respective national laws)

**ELINCS**

440-470-8 [European List of Notified Chemical Substances].

**Section 16: Other Information**

**Further information**

*The information above is based on our present knowledge. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. Users should make their own investigations to determine the suitability of the information for their particular purposes.*

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