



**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**Arbutin**

**1. Identification of the substance/mixture and company**

Trade name: Arbutin  
Active ingredient used as a skin-lightening agent  
INCI: Arbutin  
CAS No. : 84380-01-8  
EINESCS No. : 207-850-3  
REACH registration No. : -  
Utilization: Raw material for cosmetic or professional use  
Supplier company identification: **Elemental SRL**, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania  
Tel/Fax: +40259-436.755, www.elemental.eu  
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.  
International emergency number: +49 180 2273-112

**2. Hazards Identification**

**2.1 Potential Acute Health Effects:**

Hazardous in case of eye contact (irritant).  
Slightly hazardous in case of inhalation (lung irritant).  
Non-irritant for skin.

**2.2 Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.  
MUTAGENIC EFFECTS :Not available.  
TERATOGENIC EFFECTS: Not available.  
DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [SUSPECTED].  
Repeated or prolonged exposure is not known to aggravate medical conditions.

**3. Declaration of ingredients**

**3.1 Substances**

Material	C.A.S	EINECS	Risk Symbol	%
Alpha-Arbutin	84380-01-8	-	-	100

**4. First aid measures**

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

**Skin Contact:** Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.

**Serious Skin Contact:** Not available.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult ,give oxygen. Get medical attention if symptoms appear.



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**Serious Inhalation:** Not available.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

## 5. Fire fighting measures

### 5.1 Flammability

**Flammability of the Product:** May be combustible at high temperatures.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>).

**Fire Hazards in Presence of Various Substances:** Slightly flammable to flammable in presence of open flames and sparks.

**Explosion Hazards in Presence of Various Substances:** Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

### 5.2 Fire Fighting Media and Instructions

**SMALL FIRE:** Use DRY chemical powder.

**LARGE FIRE:** Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

## 6. Accidental release measures

### 6.1 Small Spill

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### 6.2 Large Spill

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## 7. Handling and storage

### 7.1 Precautions

Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible.

### 7.2 Storage



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Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 8. Exposure controls / personal protection

### 8.1 Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### 8.2 Personal Protection

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### 8.3 Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### 8.4 Exposure Limits

Not available

## 9. Physical and chemical properties

### 9.1 Appearance

Physical state and appearance: Solid. (Powdered solid.)

Odor: Not available.

Taste: Not available.

Molecular Weight: 272.25 g/mol

Color: White.

pH (1% soln/water): Not available.

Boiling Point: Not available.

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water.

Solubility: Soluble in cold water.

## 10. Stability and reactivity

### 10.1 Stability

The product is stable.



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**Instability Temperature** :Not available.

**Conditions of Instability**: Not available.

**Incompatibility with various substances**: Slightly reactive to reactive with oxidizing agents.

**Corrosivity**: Non-corrosive in presence of glass.

**Special Remarks on Reactivity**: Not available.

**Special Remarks on Corrosivity**: Not available.

**Polymerization**: Will not occur.

## 11. Toxicological information

### 11.1 Routes of Entry

Absorbed through skin. Eye contact. Inhalation. Ingestion.

### 11.2 Toxicity to Animals

LD50: Not available.

LC50: Not available.

### 11.3 Chronic Effects on Humans

DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin [SUSPECTED].

### 11.4 Other Toxic Effects on Humans

Slightly hazardous in case of inhalation (lung irritant).

Non-irritant for skin.

## 12. Ecological information

### 12.1 Ecotoxicity

Not available.

### 12.2 BOD5 and COD

Not available.

### 12.3 Products of Biodegradation

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation**: The product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation**: Not available.

## 13. Disposal considerations

### 13.1 Waste Disposal Methods

Material should be disposed of in accordance to current local, state and national regulations. Contacting a waste disposal service is recommended.

## 14. Transport information



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DOT Classification: Not a DOT controlled material (United States).  
Identification: Not applicable.  
Special Provisions for Transport: Not applicable.

## 15. Regulatory information

### 15.1 Federal and State Regulations

No products were found.

### 15.2 Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29CFR 1910.1200)

### 15.3 Other Classifications

**WHMIS (Canada):** CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

**DSCL (EEC):** R36- Irritating to eyes.  
R60- May impair fertility.

**HMIS (U.S.A.):**

**Health Hazard: 2**

**Fire Hazard: 1**

**Reactivity: 0**

### 15.3 Personal Protection

**National Fire Protection Association (U.S.A.):**

**Health: 2**

**Flammability: 1**

**Reactivity: 0**

### 15.4 Specific hazard

**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.  
Wear appropriate respirator when ventilation is inadequate. Splash goggles.

## 16. Additional information

### 16.1 Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.



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STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.

**Disclaimer:**

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.