

# SAFETY DATA SHEET

according to Regulation (EC) No.1907/2006

Version 2.0 Revision Date 03.10.2011

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## Material Safety Data Sheet DL- Mandelic Acid msds

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

#### Identification of the substance or preparation

**Product**

: DL- Mandelic Acid

**Name**

**INCI Name** : Mandelic Acid

**Synonym** : alpha-Hydroxyphenylacetic acid; Amygdalic acid; alpha-Hydroxyphenylacetic acid;  
alpha-Hydroxy-benzeneacetic acid

**CAS#** : 90-64-2

**EINECS** : 202-007-6

#### Company/undertaking identification

**M.C.Biotec Inc.**

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### Section 2: Hazards Identification

#### **Emergency Overview**

**OSHA Hazards**

No known OSHA hazards

Not a dangerous substance according to GHS.

**HMIS Classification**

**Health hazard:** 0

**Flammability:** 0

**Physical hazards:** 0

**NFPA Rating**

**Health hazard:** 0

**Fire:** 0

**Reactivity Hazard:** 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

<b>Ingestion</b>	May be harmful if swallowed.	
<b>Section 3: Composition and Information on Ingredients</b>		
Synonyms	: (±)-α-Hydroxyphenylacetic acid	
Formula	: C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>	
Molecular Weight	: 152.15 g/mol	
CAS-No.	EC-No.	Concentration (%)
Mandelic Acid		
90-64-2	202-007-6	100
<b>Section 4: First Aid Measures</b>		
<b>Eyes Contact</b>	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.	
<b>Skin Contact</b>	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.	
<b>Ingestion</b>	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.	
<b>Additional Information</b>	Note to physician: Treat symptomatically.	
<b>Section 5: Fire Fighting Measures</b>		
<b>Flammability of the Product:</b> May be combustible at high temperature.		
<b>Auto-Ignition Temperature:</b> Not available.		
<b>Flash Points:</b> Not available.		
<b>Flammable Limits:</b> Not available.		
<b>Products of Combustion:</b> These products are carbon oxides (CO, CO <sub>2</sub> ).		
<b>Fire Hazards in Presence of Various Substances:</b> Not available.		
<b>Explosion Hazards in Presence of Various Substances:</b>		
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.		
<b>Fire Fighting Media and Instructions:</b>		
<b>SMALL FIRE:</b> Use DRY chemical powder. <b>LARGE FIRE:</b> Use water spray, fog or foam. Do not use water jet.		
<b>Special Remarks on Fire Hazards:</b> Not available.		
<b>Special Remarks on Explosion Hazards:</b> Not available.		
<b>Section 6: Accidental Release Measures</b>		

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

**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****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.

**Personal Protection:**

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

**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.

**Exposure Limits:** Not available.

**Section 9: Physical and Chemical Properties****Appearance**

**Form** : Crystalline Powder

**Color** : White

**Odor** : Not available

**pH** : no data available

**Boiling Point:** no data available

**Melting Point:** 118°C-121°C

**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.

**Solubility in water:** not available

#### Section 10: Stability and Reactivity

**Stability:** Stable under recommended storage conditions.

**Instability Temperature:** Not available.

**Materials to avoid:** Strong oxidizing agents, strong reducing agents, strong bases.

#### Hazardous decomposition products

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

**Incompatibility with various substances:** Not available.

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

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

**Polymerization:** No.

#### Section 11: Toxicological Information

##### Acute toxicity

LD50 Intraperitoneal - rat - 4,100 mg/kg

##### Irritation and corrosion

no data available

##### Sensitisation

no data available

##### Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

	carcinogen or potential carcinogen by ACGIH.
<b>NTP:</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<b>OSHA:</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>Signs and Symptoms of Exposure</b>	
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
<b>Potential health effects</b>	
<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Additional Information</b>	
RTECS: Not available	
<b>Section 12: Ecological Information</b>	
<b>Toxicity</b>	
no data available	
<b>Persistence and degradability</b>	
no data available	
<b>Bioaccumulative potential</b>	
no data available	
<b>Mobility in soil</b>	
no data available	
<b>PBT and vPvB assessment</b>	
no data available	
<b>Other adverse effects</b>	
no data available	
<b>Section 13: Disposal Considerations</b>	
<b>Product</b>	
Offer surplus and non-recyclable solutions to a licensed disposal company.	
<b>Contaminated packaging</b>	
Dispose of as unused product.	
<b>Section 14: Transport Information</b>	
<b>DOT (US)</b>	
Not dangerous goods	
<b>IMDG</b>	
Not dangerous goods	
<b>IATA</b>	

Not dangerous goods

**Section 15: Regulatory Information****EINECS:** This product is on the European Inventory of Existing commercial Chemical Substances.**OSHA Hazards**

No known OSHA hazards

**DSL Status**

All components of this product are on the Canadian DSL list.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

No SARA Hazards

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Mandelic Acid	90-64-2	

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
Mandelic Acid	90-64-2	

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16: Other Information****Other Special Considerations:** Not available.**Disclaimer**

*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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