

## 1. IDENTIFICATION

**IDENTIFIER (AS LABELED):** Biotin  
**RECOMMENDED USE/RESTRICTION:** Metabolism, Hair/Nail Growth  
**MANUFACTURER'S NAME:** Belle Chemical  
**ADDRESS:** PO Box 21874  
Billings, MT 59104  
**EMERGENCY PHONE:** CHEMTREC (800) 262-8200  
**BUSINESS PHONE:** 406-672-5899

Health	0
Fire	0
Reactivity	0

## 2. HAZARD(S) IDENTIFICATION

**HAZARD CLASSIFICATION:** Not a hazardous substance or mixture. Generally regarded as safe when used as a nutrient in food for human consumption when used in accordance with good manufacturing practice (21 CFR 182.8159). Used as a nutrient and/or dietary supplement in animal drugs, feeds, and related products is generally recognized as safe when used in accordance with good manufacturing or feeding practice (21 CFR 582.5159).

**SIGNAL WORD:** None  
**HAZARD STATEMENT(S):** None  
**SYMBOL(S):** None  
**PRECAUTIONARY STATEMENT(S):** None  
**HAZARDS NOT CLASSIFIED:** None  
**UNKNOWN ACUTE TOXICITY:** Not Applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENT(S)

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR					
			ACGIH		OSHA			NIOSH
			TLV TWA	STEL	PEL	STEL	IDLH	REL
Biotin (Coenzyme R)	58-85-5	100	NE	NE	NE	NE	NE	NE

## 4. FIRST-AID MEASURES

**INHALATION:** Remove person to fresh air and keep comfortable for breathing. Seek medical attention if irritation persists.  
**EYES:** Hold eyelids open and flush with a steady stream of water for 20 minutes. Seek medical attention if irritation persists.  
**SKIN:** Wash affected area with soap and water. Seek medical attention if irritation persists.  
**INGESTION:** Rinse mouth. **DO NOT INDUCE VOMITING** unless directed by a medical professional. Seek medical attention if unwell.

## 5. FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MATERIALS:** Use extinguishing media applicable to the surrounding fire.  
**SPECIAL EQUIPMENT:** Use water spray to cool containers. Wear full protective clothing and self-contained breathing apparatus (SCBA).  
**SPECIFIC HAZARDS:** When heated to decomposition, this product may emit carbon, nitrogen or sulfur oxides.

## 6. ACCIDENTAL RELEASE MEASURES

**SPILL AND LEAK RESPONSE:** Contain material and use as intended, or discard according to Federal, State and local regulations.

## 7. HANDLING and STORAGE

**SAFE HANDLING:** Wash hands after handling material. Do not eat, drink, or smoke while handling material.  
**SAFE STORAGE:** Store in cool, dry, well-ventilated area away from incompatible materials.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use with adequate ventilation in open-atmosphere areas, or sealed containers.  
**RESPIRATORY:** NIOSH-approved respirator  
**EYE:** Face shield and goggles  
**HAND:** Hand protection made of compatible material  
**BODY:** Appropriate for exposure or work environment  
**OTHER PROTECTIVE MEASURES:** Eye wash fluid should be accessible in case of eye irritation due to exposure

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b> White Powder	<b>ODOR:</b> Not Established	<b>ODOR THRESHOLD:</b> Not Established
<b>PH:</b> Not Applicable	<b>MELT/FREEZE POINT:</b> 448-451°F	<b>BOILING POINT/RANGE:</b> Not Established
<b>FLASH POINT:</b> Not Established	<b>EVAPORATION RATE:</b> Not Established	<b>FLAMMABILITY:</b> Not Established
<b>UEL / LEL:</b> Not Established	<b>VAPOR PRESSURE:</b> Not Established	<b>VAPOR DENSITY:</b> Not Established
<b>RELATIVE DENSITY:</b> ~2.2-2.4	<b>SOLUBILITY(IES):</b> Water	<b>PARTITION COEFFICIENT:</b> Not Established
<b>AUTO-IGNITION:</b> Not Established	<b>DECOMPOSITION TEMP:</b> Not Established	<b>VISCOSITY:</b> Not Established

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Generally non-reactive  
**CHEMICAL STABILITY:** Stable

**CONDITIONS TO AVOID:** Moisture, contamination

**INCOMPATIBLE MATERIALS:** Strong acids, bases, oxidizers, nitrous acid, formaldehyde

**HAZARDOUS POLYMERIZATION:** Will not occur

#### 11. TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** Not considered toxic.

**NTP/IARC SUSPECTED CARCINOGEN:** Not suspected.

**SYMPTOMS OF EXPOSURE:** No symptoms of overexposure.

**TOXICITY ESTIMATE(S):** ORAL: > 1.45mmol/kg

#### 12. ECOLOGICAL INFORMATION

**ECOTOXICITY:** Not considered toxic

**PERSISTENCE AND DEGRADABILITY:** Biodegradable

**BIOACCUMULATIVE POTENTIAL:** Product is biodegradable and non-accumulative

**MOBILITY IN SOIL:** Not tested as a whole

**OTHER ADVERSE EFFECTS:** None

#### 13. DISPOSAL CONSIDERATIONS

**SAFE HANDLING AND DISPOSAL:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations.

#### 14. TRANSPORTATION INFORMATION

**UN NUMBER/SHIPPING NAME:** Not regulated as dangerous goods

**TRANSPORT HAZARD CLASS(ES):** No requirements

**DOT:** Not regulated as dangerous goods

**PACKING GROUP:** No requirements

**ENVIRONMENTAL HAZARDS:** No

**TRANSPORT IN BULK:** None

**SPECIAL PRECAUTIONS:** None

#### 15. REGULATORY INFORMATION

**SARA 302:** No requirements.

**SARA 311/312:** No requirements.

**SARA 313:** No requirements.

**TSCA STATUS:** All constituents.

**CALIFORNIA PROPOSITION 65:** Not found.

**CERCLA (RQ):** No requirements.

**STATE REGULATIONS:** No requirements.

**EUROPEAN INVENTORY:** Constituents of this product are listed on EINECS

#### 16. OTHER INFORMATION

The information and recommendations herein are taken from data contained in independent industry recognized references including NIOSH, OSHA, ANSI, and NFPA. No guarantee, express or implied, and no liability is assumed by Belle Chemical in conjunction with the use of this information.

**DATE OF PREPARATION:** 12/16/2017