



Section 1. Product and Company Identification

Product Name Biotin
CAS Number 58-85-5

Parchem - fine & specialty chemicals
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New Rochelle, NY 10801
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
Not classified as a hazardous substance or mixture.

GHS Classification: Based on available data, the classification criteria are not met.

GHS Label Elements

Pictograms: N/A

Signal word: N/A

Hazard and precautionary statements

Hazard Statements

Not applicable

Precautionary Statements

Prevention: Not applicable

Response: Not applicable

Storage: Not applicable

Disposal: Not applicable

HMIS Rating

Health: 0

Flammability: 0

Reactivity: 0

Personal Protection: B



Section 3. Composition / Information on Ingredients

Common Name Biotin
Synonym(s) Coenzyme R; D-Biotin; Vitamin B7; 1H-Thieno [3,4-d]imidazole-4-pentanoic acid, hexahydro-2-oxo, 3aS-(3aa,4β,6aa)-
Formula C₁₀H₁₆N₂O₃S
CAS Number 58-85-5

| COMPONENT | CAS NUMBER | CONCENTRATION |
|-----------|------------|---------------|
| Biotin | 58-85-5 | 100% wt. |

Section 4. First Aid Measures

Eye Contact: Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

Skin Contact: Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

Ingestion: Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician

Symptoms and Effects: Not expected to present a significant hazard under anticipated conditions of normal use.

Section 5. Firefighting Measures

Specific Hazards Arising from the Chemical: Not applicable

Flammable Properties: May be combustible at high temperature

Hazardous Combustion Products: Under fire conditions, hazardous fumes will be present.

Extinguishing Media

Small Fire: Dry chemical, CO₂, or water spray.

Large Fire: Dry chemical, CO₂, alcohol resistant foam, or water spray. Do not get water inside containers.

Protective Equipment and Precautions for Firefighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

Personal Precautions: Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Methods & Material For Containment: On land, sweep or shovel into suitable containers. Minimize generation of dust.



Clean-up Procedure: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

Section 7. Handling and Storage

Precautions for Safe Handling: Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Storage Conditions: Store in original container, tightly sealed container, protected from direct sunlight, in a dry, cool and well-ventilated area, away from incompatible materials. Store in accordance with local regulations. Eliminate all ignition sources. Separate from oxidizing materials. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in tight containers.

Section 8. Exposure Controls / Personal Protection

Chemical Name: Biotin

| | TWA | Ceiling | STEL | REL | IDLH | Remarks |
|-------------------------------------|-----|---------|------|-----|------|---------|
| ACGIH TLV | N/L | N/L | N/L | - | - | - |
| AIHA WEEL | N/L | N/L | N/L | - | - | - |
| HSE | N/L | N/L | N/L | - | - | - |
| NIOSH | N/L | N/L | N/L | N/L | N/L | - |
| OSHA PEL | N/L | N/L | - | - | - | - |
| Safe Work Australia HSIS | N/L | N/L | N/L | - | - | - |

Exposure Guidelines: Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m³.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



Specific Engineering Controls: Adequate mechanical ventilation. Fume hood, eye wash station, and safety shower.

Section 9. Physical and Chemical Properties

Physical State: Solid

Description: Practically white, crystalline powder.

Solubility: Very slightly soluble in water and in alcohol; insoluble in other common organic solvents.

Odor: Odorless

Flammability: May be combustible at high temperature

Odor Threshold: Not available

pH: 4.5 (0.01%)

Melting Point: 229 - 233°C (444.2 - 451.4°F) - Decomposes

Boiling Point: Not available

Freezing Point: Not available

Flash Point: Not available

Specific Gravity: Not available

Evaporation Rate: Not available

Explosive Limit: Not available

Upper Flammable/Explosive Limit(s): Not available

Lower Flammable/Explosive Limit(s): Not available

Vapor Pressure: Not available

Vapor Density (Air = 1): Not available

Relative Density (Water = 1): Not available

Log P (Octanol-Water): 0.390

Auto-ignition Temperature: Not available

Decomposition Temperature: Not available

Viscosity: Not available

Section 10. Stability and Reactivity

Reactivity: Not established

Stability: Stable under recommended storage conditions

Materials To Avoid: Strong oxidants

Hazardous Decomposition Products: Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur

Hazardous Polymerization: Will not occur

Possibility of Hazardous Reaction: Not established

Conditions To Avoid: Moisture, sunlight and extreme temperatures

Section 11. Toxicological Information

Acute Toxicity

LD50 Oral - Rat: > 354 mg/kg

LD50 Dermal - Rabbit: Not available

LD50 Inhalation - Rat: Not available

Skin Corrosion/Irritation: Intradermal injection, Species: Guinea pig, Result: Negative

Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation: 0.1 % Irritancy test, Species: Rabbit, Result: Negative, Severity: Slight; transient

Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization: Due to lack of data the classification is not possible.

Germ Cell Mutagenicity: Due to lack of data the classification is not possible.

Carcinogenicity

OSHA: Biotin (Vitamin H) is not listed.

NTP: Biotin (Vitamin H) is not listed.

IARC: Biotin (Vitamin H) is not evaluated.

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Additional Carcinogenicity Information: Not available

Reproductive Toxicity: Suspected of damaging the unborn child. Suspected of damaging fertility.

Maternal effects (uterus, cervix, vagina, other effects on female). Effects on fertility (post-implantation mortality, litter size). Effects on embryo or fetus (fetotoxicity, extra embryonic structures). 1000 mg/kg Reproductive and developmental toxicity assay.

Result: No adverse reproductive or developmental effects

Species: Mouse

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure: Due to lack of data the classification is not possible.

Specific Target Organ Toxicity - Repeated Exposure: Due to lack of data the classification is not possible.

Aspiration Hazards: Due to lack of data the classification is not possible.

Signs and symptoms of exposure: Not expected to present a significant hazard under anticipated conditions of normal use.

Potential Health Effects

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

Ingestion: May be harmful if swallowed.

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

Eyes: May cause eye irritation.

**Section 12. Ecological Information****Toxicity**

EC50: 48 Hr: Daphnia magna: (mg/L): Not available

LC50: 96 Hr: Fish: (mg/L): Not available

IC50: 72 Hr: Algae: (mg/L): Not available

Persistence and Degradability: Biodegradation: 38%**Bioaccumulative Potential:** LogPow: 0.390**Mobility in Soil:** Water solubility: 220 mg/L (25°C)**Other Adverse Effects:** Not available

This product is not intended to be released into the environment

Section 13. Disposal Considerations**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.**Section 14. Transport Information****United States & Canada****UN Proper Shipping Name:** Not dangerous good**UN Number:** Not applicable**Class:** Not applicable**Packing Group:** Not applicable**Australia****UN Proper Shipping Name:** Not dangerous good**UN Number:** Not applicable**Class:** Not applicable**Packing Group:** Not applicable**Hazchem:** Not applicable**Environmental Hazards:** Not available**Special Shipping Information:** Not applicable**Section 15. Regulatory Information****Chemical:** Biotin (Vitamin H)**CAS Number:** 58-85-5**CERCLA 40 CFR Part 302.4:** Not Listed**SARA (Title III) 40 CFR Part 372.65:** Not Listed**EPA 40 CFR Part 355 - Appendix A:** Not Listed**EPA 40 CFR Part 355 - Appendix B:** Not Listed



Right-to-Know - Pennsylvania: Not Listed
Right-to-Know - New Jersey: Not Listed
Right-to-Know - Massachusetts: Not Listed
California Prop 65: Not Listed

Australian Regulations

CAS Number: 58-85-5
CERCLA 40 CFR Part 302.4: Not Listed
Poisons and Therapeutic Goods Regulation: Not Listed
Therapeutic Goods Act: Not Listed
Code of Practices - Illicit Drug Precursors: Not Listed

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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