

D(+)-Biotin**DOC0(202-203)****SECTION 1 Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Identification of the product : Raw material
Product code : DOC0(202-203)
Trade name : D(+)-Biotin
CAS number : 000058-85-5
Formula : C₁₀H₁₆N₂O₃S

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses : For research purposes only
1.2.2 Uses advised against : No additional information available

1.3. Details of the supplier of the safety data sheet

Company identification : Formedium Ltd.
King's Lynn, England, PE31 6DJ
Tel: +44(0)1485 609069
Web: www.Formedium.com
E-mail: info@formedium.com

1.4. Emergency telephone number

Emergency telephone number : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)
NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours)

SECTION 2 Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Not regulated

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008**

Hazards pictograms code : None
Precautionary statements : None

2.3 Other hazards

None under normal conditions.

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D(+)-Biotin**DOC0(202-203)****SECTION 3 Composition/information on ingredients****3.1 Substance / Preparation**Molecular weight g/mol : 244.31
Structural formula: : C10H16N2O3S

Substance name:	Contents	CAS No:	EC No:	Annex No:	Ref REACH	Classification
D(+)-Biotin	> 97.5 %	58-85-5	200-399-3	--	--	--

SECTION 4 First aid measures**4.1. Description of first aid measures****General information** : Seek medical attention if ill effect or irritation develops.**Inhalation** : Assure fresh air breathing.**Skin contact** : Wash skin with mild soap and water.**Eye contact** : Rinse with water.**Ingestion** : Rinse mouth.**4.2. Most important symptoms and effects, both acute and delayed****Symptoms and effects, both acute and delayed.** : No data available.**4.3. Indication of any immediate medical attention and special treatment needed****Medical attention and special treatment needed.** : No data available.**SECTION 5 Fire-fighting measures****5.1. Extinguishing media****Suitable extinguishing media** : Water spray, Alcohol resistant foam, Carbon dioxide (CO₂) or Dry chemical powder.**5.2. Special hazards arising from the substance or mixture**

When heated to decomposition, emits toxic fumes.

CO_x NO_x SO_x**5.3. Advice for firefighters****Protection against fire** : Wear proper protective equipment.**Special procedures** : Avoid (reject) fire fighting water to enter environment.

D(+)-Biotin**DOC0(202-203)****SECTION 6 Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General measures** : Wear suitable protective clothing.**6.1.1. For non-emergency personnel** : No additional information available.**6.1.2. For emergency responders** : No additional information available.**6.2 . Environmental precautions**

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up**Methods for cleaning up** : Dispose in a safe manner in accordance with local / national regulations.
Sweep up dry powder and dispose properly.**6.4. Reference to other sections**

For disposal see section 13.

SECTION 7 Handling and storage**7.1. Precautions for safe handling**

Local exhaust is recommended where dust may occur.

7.2. Conditions for safe storage, including any incompatibilities**Storage conditions** : Store in a dry, cool well-ventilated area. Keep container tightly closed and dry.
Storage temperature : 2 – 8 °C**7.3. Specific end use(s)**

For research purposes only

SECTION 8 Exposure controls/personal protection**8.1. Control parameters****8.2. Exposure controls**

- **Eye protection** : Chemical goggles or safety glasses.
- **Skin protection** : Wear suitable protective clothing.
- **Hand protection** : Gloves. Nitrile Rubber (EN374).
- **Respiratory protection** : P1 Where excessive dust may result, wear approved mask (EN143).

SECTION 9 Physical and chemical properties**• Appearance****Appearance** : Powder. Crystalline powder.**Colour** : White**• Odour****Odour** : Odourless.

D(+)-Biotin**DOC0(202-203)****SECTION 9 Physical and chemical properties (continued)**

- Odour threshold
Odour threshold : Not established.
- pH
pH value : No data available.
- Melting point / Freezing point
Melting point (°C) : 229 - 232
- Initial boiling point – boiling range
Boiling point (°C) : No data available.
- Flash point
Flash point (°C) : Not established.
- Evaporation rate
Evaporation rate (ether =1) : No data available.
- Flammability
Flammability range (vol % in air) : No data available.
- Explosion limits (lower – upper)
Explosion limits : No data available.
- Vapour pressure
Vapour pressure : Not established.
- Vapour density
Relative vapour density (air=1) : No data available.
- Relative density
Relative Density : No data available.
- Solubility
Solubility in water : Poorly soluble in water. Acidic aqueous solution. Alkaline mixture
Water: 0.2 g/L (at 90°C)
- Partition coefficient : n-octanol / water
Log P octanol / water at 20°C : No data available
- Auto-ignition temperature
Auto-ignition temperature (°C) : No data available.
- Thermal decomposition
Thermal decomposition (°C) : No data available.
- Viscosity
Viscosity : No data available.
- Explosive properties
Explosive properties : Not established.
- Oxidising properties
Oxidising properties : Not established.

9.2 Other information

D(+)-Biotin**DOC0(202-203)****SECTION 10 Stability and reactivity****10.1. Reactivity**

Stable under normal conditions.

10.2. Chemical stability**Stability** : Stable under recommended storage conditions.**10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid**Conditions to avoid** : Moisture, Heat**10.5. Incompatible materials**

No additional information available.

10.6. Hazardous decomposition products**Hazardous decomposition products** : May liberate toxic gases. CO_x, NO_x, SO_x.**SECTION 11 Toxicological information****11.1. Information on toxicological effects**

Acute toxicity	: Not classified.
-Skin corrosion / irritation	: Not classified.
-Serious eye damage / irritation.	: Not classified.
-Respiratory or skin sensitization	: Not classified.
-Germ cell mutagenicity	: Not classified.
-Carcinogenicity	: Not classified.
-Reproductive toxicity	: Not classified.
-STOT – single exposure	: Not classified.
-STOT – repeated exposure	: Not classified.
-Rat oral LD50 (mg/Kg)	: > 2000

11.2. Additional Information**Endocrine disrupting properties :**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

D(+)-Biotin**DOC0(202-203)****SECTION 12 Ecological information****12.1. Toxicity**

No additional information available.

12.2. Persistence - degradability

No data available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects**Environmental precautions** : Prevent entry to sewers and public waters.
Avoid release to the environment.**12.7. Endocrine disrupting properties**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13 Disposal considerations**13.1. Waste treatment methods****Waste treatment methods** : Avoid release to the environment.
Product / packaging disposal recommendations : Dispose in a safe manner and in accordance with local / national regulations.**SECTION 14 Transport information****14.1. UN Number**

Not applicable.

General information : Not classified as dangerous in the meaning of transport regulations.**14.2. UN Proper shipping name**

Not applicable.

14.3. Transport Hazard Class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable

D(+)-Biotin**DOC0(202-203)****SECTION 15 Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety data sheet complies with the requirements of Regulation (EU) No. 2015/830

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 Other information**Further information**

: 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. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision

: Complete SDS revision

End of document