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**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.  
 Unit 1B Hunstanton Commercial Park  
 Norfolk PE365JQ  
 Tel: +44(0)1485 609069  
 Fax: +44(0)1485 600510  
 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)  
 National Poison Information Centre : Europe UK : +44 0845 4647 (this service is only available to health professionals)  
 See [www.toxbase.org](http://www.toxbase.org) for a local poison centre

**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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### SECTION 3 Composition/information on ingredients

#### 3.1 Substance / Preparation

Molecular weight g/mol : 244.31  
 Structural formula: : C<sub>10</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub>S

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 (CO<sub>2</sub>) or Dry chemical powder.

#### 5.2. Special hazards arising from the substance or mixture

When heated to decomposition, emits toxic fumes.  
 CO<sub>x</sub> NO<sub>x</sub> SO<sub>x</sub>

#### 5.3. Advice for firefighters

**Protection against fire** : Wear proper protective equipment.  
**Special procedures** : Avoid (reject) fire fighting water to enter environment.

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**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.

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### 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

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**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. COx, NOx, SOx.

**SECTION 11 Toxicological information**
**11.1. Information on toxicological effects**

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

**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.

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### 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

### 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