



# Y&R

Chemistry for Colorful Life

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## SAFETY DATA SHEET

### Biotin

Version: 2.0 Date/revised: Jan.09,2017

#### **SECTION 1:Identification of the substance/mixture and of the company/undertating**

##### 1.1 Product Identifier:

Substance Name:Biotin

Synonyms:Biotin,D-Biotin,Vitamin H

CAS#58-85-5

EC NO.:200-399-3

##### 1.2 Recommended uses of the substance or mixture and uses advised against

Recommended Use: For Pharmaceutical,food and Cosmetic

Uses advised against: Additive for animal feed.

##### 1.3 Details of the Supplier of the Safety Date Sheet

Company Name:Tianjin YR Chemspec Technology Co.,Ltd.

Address:908 Changqing Building,Weishan-Nan Road,Jinnan District,Tianjin China

Tel:+86-22-27607566,Fax:+86-22-27607566

##### 1.4 Emergency Telephone Numer

Phone Number:+86-22-27607566,+86-13821082726

#### **SECTION 2:Hazards Identification**

##### 2.1 Classification of the Substance or Mixture

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This substance does not present a health hazard.

This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This substance does not present a health hazard.

This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

##### 2.2 Label Elements

Precautionary statements - Prevention:

Do not breathe dust/fume/gas/mist/vapours/spray.

Safety phrase: S 22 Do not breathe dust.

2.3.Other Hazards:In use, may form flammable/explosive dust-air mixture.

### **SECTION 3:Composition/Information on Ingredients**

Chemical Name	EC No.	CAS No.	Weight %
Biotin	200-399-3	58-85-5	97.5~100.5%

### **SECTION 4:First Aid Measures**

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing in an unconscious person.

#### 4.1. Description of first aid measures

In the event of exposure by inhalation: Move victim to the open air.

If symptoms persist, seek medical attention.

In the event of splashes or contact with eyes: Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin: Watch out for any remaining product between skin and clothing, watches, shoes, etc.

Wash skin thoroughly with water.

In the event of swallowing: Seek medical attention, showing the label. Do not force vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

No data available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

### **SECTION 5:Firefighting Measures**

Non-flammable.

In the event of a fire, immediate and rapid evacuation is necessary.

#### 5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use:

- sprayed water or water mist
- foam
- powder
- carbon dioxide (CO<sub>2</sub>)

Unsuitable methods of extinction

In the event of a fire, do not use: - water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)
- sulphur dioxide (SO<sub>2</sub>)
- nitrogen oxide (NO)
- nitrogen dioxide (NO<sub>2</sub>)

### 5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

## **SECTION 6:Accidental Release Measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For fire-fighters Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Prevent any material from entering drains or waterways.

### 6.3. Methods and material for containment and cleaning up

N/A

Collect mechanically in suitable receptacles for disposal.

After cleaning, rinse traces with water.

### 6.4. Reference to other sections

No data available.

## **SECTION 7:Handling and Storage**

Requirements relating to storage premises apply to all facilities where the substance is handled.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Prevent the formation of dusts.

Fire prevention:

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations

Do not breathe in dust.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the substance is used.

### 7.2. Conditions for safe storage, including any incompatibilities

Store receptacles hermetically closed to prevent absorption of humidity and contamination.

Store in a cool, dry and well-ventilated area.

Stack at ambient temperature in the original receptacle.

Protect from light.

Packaging:Always keep in packaging made of an identical material to the original

### 7.3. Specific end use(s)

No data available.

## **SECTION 8: Exposure Controls/Personal Protection**

### 8.1. Control parameters

No data available.

### 8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Recommended properties:

- Impervious gloves in accordance with standard EN374

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid breathing dust.

Type of FFP mask:

Wear a disposable half-mask dust filter in accordance with standard EN149.

Anti-particle filtering respiratory protection device.

### 8.3. Exposure controls linked to environmental protection

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

## **SECTION 9: Physical and Chemical Properties**

### 9.1. Information on basic physical and chemical properties

General information:

Physical state: solid

- Very fine powder.

Colour: White to creamy-white.

Odour: Odourless.

Empirical formula :  $C_{10}H_{16}N_2O_3S$

Molecular weight: 244.31

Loss on drying (105°C - 4h): 2%

Particle size : ~95% (< 100 µm).

Important health, safety and environmental information:

PH of the substance or preparation: not relevant.

The pH is impossible to measure or its value is not relevant.

PH (aqueous solution): 5 (0.1 g/l, 25°C)

Vapour pressure: not relevant.

Density: < 1

Water solubility: Partially soluble. 0.22 g/l (20°C)

Melting point/melting range: 227 °C.

9.2. Other information

Density : ~ 0.37 g/cm<sup>3</sup> (loose packed) - ~ 0.45 g/cm<sup>3</sup> (packed).

## **SECTION 10: Stability and Reactivity**

10.1. Reactivity

No data available.

10.2. Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid:

- formation of dusts

Dusts can form an explosive mixture with air.

10.5. Incompatible materials

Keep away from:

Oxidising agents

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

- sulphur dioxide (SO<sub>2</sub>)

- nitrogen oxide (NO)

- nitrogen dioxide (NO<sub>2</sub>)

## **SECTION 11: Toxicological Information**

11.1. Information on toxicological effects

Repeated or prolonged contact with the substance may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Skin corrosion/skin irritation:

Non-irritant for skin.

Serious damage to eyes/eye irritation:

Mild irritant for eyes.

## **SECTION 12: Ecological Information**

### 12.1. Toxicity

FISH CL0 (96h) = 104 mg/l (Brachydanio rerio).

#### Substances

No aquatic toxicity data available for the substances.

No aquatic toxicity data available for the mixture.

### 12.2. Persistence and degradability

Biodegradation: 10% (28 days - closed cup).

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

## **SECTION 13: Disposal Considerations**

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

#### Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

#### Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

## **SECTION 14: Transport Information**

Exempt from transport classification and labelling.

## **SECTION 15: Regulatory Information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

### 15.2. Chemical safety assessment

No data available.

## **SECTION 16: Other Information**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.