

ProteoChem, Inc.

Material Safety Data Sheet

Section 1

Product Name
Product Number
Manufacturing Company

Product Information and Company Information

Biotin Hydrazide
b2106-100mg, b2106-1gm, b2106-custom
ProteoChem, Inc.
Ph: 888.501.CHEM
888.501.2436 (+1.720.239.1630)
12/1/2008

Section 2

Material Name
Synonymous Name(s)
CAS Number
Chemical Formula

Composition / Ingredient Information

Biotin Hydrazide
(+)-Biotin-hydrazide
66640-86-6
 $C_{10}H_{18}N_4O_2S$

Section 3

Hazard Identification

Emergency Overview

Warning! CAUSES IRRITATION TO RESPIRATORY TRACT, SKIN, AND EYES. CAUSES DAMAGE TO: NERVOUS SYSTEM, KIDNEYS, SPLEEN, BONE MARROW AND LYMPHATIC SYSTEM. Do not breath dust. Use in adequately ventilated areas only. Avoid ingestion. Avoid contact with eyes and skin. Wash thoroughly after handling.
Harmful if Swallowed.
May Cause liver damage.
May cause irritation to respiratory system, eyes and skin

HMIS Rating	Health	1
	Flammability	0
	Reactivity	0
NFPA Rating	Health	1
	Flammability	0
	Reactivity	0

Entry Routes Inhalation, Absorption through skin, contact with eyes, ingestion
Carcinogen/Mutagen/Teratogen Not Available
Symptoms/Signs of Overexposure Not Available

Section 4

First Aid Measures

Inhalation Lung irritant. Move to fresh air if inhalation occurs. Give oxygen and/or artificial respiration if not breathing.
Skin Contact Irritant. Wash affected area with soap and water. Get medical attention if irritation occurs.
Eye Contact Irritant. Can cause damage to eye and/or cause blindness. Flush with copious amounts of water. Get medical attention.
Ingestion May be fetal if ingested. Wash mouth with water. Do not induce vomiting. Call a physician immediately.

Section 5

Fire Fighting Measures

Flash Point N/A
Autoignition Temperature N/A
Flammability May be combustible at high temperatures.
Suitable Extinguishing Media Use extinguishing material that is suitable for surrounding fire.
Firefighting Use a self-contained breathing apparatus. Toxic fumes emitted when ignited.

Section 6

Accidental Release Measures

Personal Precautions Dust respirator, chemical safety goggles, lab coat, rubber boots, and rubber gloves
Clean up methods Avoid creating dust, ventilate area, sweep and wash site of spill.
Dispose of material in an appropriate waste container.

Section 7

Handling and Storage

Handling Avoid breathing dust. Avoid contact with skin, eyes, skin, and clothes. Wash thoroughly after handling.
Storage Store in tightly closed container at -20°C.
Special Requirements Moisture sensitive

Section 8**Exposure Controls / PPE**

Engineering Controls

Mechanical exhaust, eye wash station, and safety shower are required.

Personal Protection

Respiratory

Approved respirator for dust and particulate (i.e. type N95)

Eyes

Chemical safety goggles

Skin

Lab Coat and chemical resistant gloves

Section 9**Physical and Chemical Properties**

Appearance

White to off-white solid.

Molecular Weight

258.34 AMU

Melting Point

Not available

Solubility

Soluble in DMSO and DMF.

Section 10**Stability and Reactivity**

Stability

Product is stable

Conditions to avoid

Avoid flame, heat and sparks.

Materials to avoid

Avoid contact with acids, alkali metals, oxidizing agents and moisture.

Hazardous Decomposition Products

Not available

Hazardous Polymerization

Will not occur

Section 11**Toxicological Information***Exposure Routes*

Inhalation

Lung and respiratory tract irritation

Skin Contact

Irritation

Absorption through skin

May be harmful if absorbed through skin.

Ingestion

May be harmful if ingested.

Symptoms of Exposure

To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Toxic to the liver.

Section 12**Ecological Information**

Data not available

Section 13**Disposal Considerations**

Appropriate Disposal of Waste

Minimize waste generation wherever possible. Dispose of waste in accordance with local, state and federal environmental control regulations.

Section 14**Transport Information**

Contact the supplier for all information regarding proper transportation methods for this product. Not a DOT controlled material (United States).

Section 15**Regulatory Information**

US Classification and Label Text

Toxic

Indication of Danger

Harmful by inhalation, ingestion and skin contact. Irritating to lung tissue and respiratory tract, eyes and skin.

Statement of Risk

Toxic

Statement of Safety

In case of inhalation, remove to fresh air, provide oxygen and contact a physician. In case of eye or skin exposure, rinse with copious amounts of water and seek medical advice immediately. Wear appropriate protective clothes.

Section 16**Other Information**

Disclaimer

Material is for R&D use only. Not for household, drug or other uses.

Warranty

The information in this MSDS is intended to be used as a guide only. In no way is this information intended to be all inclusive. This information is a reflection of our current knowledge of this material and is applicable to this product with appropriate safety precautions. To the best of our understanding, all information in this MSDS is thought to be correct. ProteoChem, Inc. shall in no way be liable for any damage resulting from handling or any other contact with this product. All materials may cause unknown safety and health hazards, and should be handled with care. Refer to invoice and product label for additional terms and conditions of this sale.