

# SAFETY DATA SHEET



**GlycoNZ**  
Glycoconjugates for Glycobiology

Date of revision: December 15, 2022  
GENERIC MSDS - NO COUNTRY SPECIFIC DATA

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

### 1.1 Product Identifiers

Product : Biotin-CMG2-Sterol  
Product ID Number : Biot-SC2-S1 / 416662  
Designation : Biotin-SC2-S1  
Other name : FSS-CONJ(1Biotin)-SC2-S1  
Trivial name : FSS-Biotin  
Brand : GlycoNZ

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

Identified uses : Laboratory chemical, for *in vitro* diagnostic and research use only

### 1.3 Details of the supplier of the safety data sheet

Company : GlycoNZ Limited  
3 Lonsdale St  
Ellerslie 1051 Auckland  
New Zealand  
Email : [shenry@kodebiotech.com](mailto:shenry@kodebiotech.com)  
Website : [www.glyconz.com](http://www.glyconz.com)

### 1.4 Emergency telephone number

: +64 21 715 494

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

### 2.2 Label Elements

Caution – substance not yet tested completely

### 2.3 Other hazards – none

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Description : Biotin-CMG2-Sterol  
Formula :  $C_{77}H_{115}N_{17}Na_4O_{25}S$   
Mol. Weight : 1802.9 Da  
Proportion : 100%  
Form : Lyophilized from 5% water solution at +20°C

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash with plenty of water.

#### In case of eye contact

Flush with water for at least 15 minutes. If symptoms arise seek medical attention.

#### If swallowed

Wash out mouth with water and give water to drink. If symptoms arise seek medical attention.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

## SECTION 5: Firefighting measures

### 5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

Not data available

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## SECTION 6: Accidental release measures

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

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection, see section 8.

### 6.2 Environmental precautions

Do not let product enter drains

### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal, see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Ventilation is not necessary

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

Store at +4°C in dark, best stored at -20°C as lyophilizate

Product reconstituted in saline/PBS should be kept sterile and stored for no longer than 1 month at +4°C.

Stored solutions should be sonicated for 60 seconds before re-use.

Product reconstituted in water is unstable.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters. Components with workplace control parameters

None

### 8.2 Exposure controls

#### Appropriate engineering controls

General industrial hygiene

#### Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standard such as NIOSH (US) or EN 166(EU).

##### Skin protection

Selected protective gloves should satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin with this product. Wash and dry hands.

##### Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work place.

##### Respiratory protection

Respiratory protection is not required. Where protection from dust is desired, use dust masks.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|    |                         |  |
|----|-------------------------|--|
| a) | Appearance              | Off-white, pale yellow to cream amorphous lyophilised powder |
| b) | Odour                   | Odourless  |
| c) | Boiling point           | Not determined   |
| d) | Vapour pressure         | Negligible   |
| e) | Melting point           | Not determined   |
| f) | Solubility in water     | Very high  |
| g) | Incompatibility (avoid) | Strong acidic or basic reagents, oxidants, unstable in water |

### 9.2 Other safety information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Incompatibility (materials to avoid)

Strong acidic or basic reagents, oxidants, unstable in water

### 10.4 Hazardous decomposition or by-products

Not determined

### 10.5 Hazardous polymerisation

Will not occur

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## SECTION 11: Toxicological information

|             |   |  |
|-------------|---|--|
| <b>11.1</b> | <b>Information on toxicological effects</b> |  |
|             | <b>Acute toxicity</b>                       | Not toxic  |
|             | <b>Skin corrosion/irritation</b>            | Not toxic, see below   |
|             | <b>Serious eye damage/eye irritation</b>    | No damage, see below   |
|             | <b>Respiratory or skin sensitization</b>    | Not any effects, see below   |
|             | <b>Germ cell mutagenicity</b>               | Not mutagenic  |
|             | <b>Carcinogenicity</b>                      | Not listed by OSHA   |
|             | <b>Reproductive toxicity</b>                | Not toxic  |
|             | <b>Specific toxicity</b>                    | Not toxic  |
|             | <b>Potential health effects</b>             |  |
|             | <b>Inhalation</b>                           | May be harmful if inhaled. May cause respiratory tract irritation  |
|             | <b>Ingestion</b>                            | May be harmful if swallowed  |
|             | <b>Skin</b>                                 | May be harmful is absorbed through skin. May cause skin irritation |
|             | <b>Eyes</b>                                 | May cause eye irritation   |

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## SECTION 12: Ecological information

|             |                                      |  |
|-------------|--------------------------------------|--|
| <b>12.1</b> | <b>Toxicity</b>                      | We are not aware of any toxicity for this product. |
| <b>12.2</b> | <b>Persistence and degradability</b> | Quick degradation by bacteria or fungi etc.        |
| <b>12.3</b> | <b>Bio accumulative potential</b>    | No potential                                       |
| <b>12.4</b> | <b>Mobility in soil</b>              | Fast eluting by water                              |
| <b>12.5</b> | <b>Other adverse effects</b>         | No data available                                  |

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## SECTION 13: Disposal considerations

|             |                                |  |
|-------------|--------------------------------|--|
| <b>13.1</b> | <b>Waste treatment methods</b> |  |
|             | <b>Product</b>                 | Offer surplus and non-recyclable solutions to a licensed disposal company. |
|             | <b>Contaminated packaging</b>  | Dispose of as unused product.  |

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## SECTION 14: Transport Information

|             |   |                             |            |  |
|-------------|---|-----------------------------|------------|--|
| <b>14.1</b> | <b>UN number</b>                                  |                             |            |  |
|             | ADR/RID: -  | IMDG: -                     | IATA: -    |  |
| <b>14.2</b> | <b>UN proper shipping name</b>                    |                             |            |  |
|             | ADR/RID: Not dangerous goods                      |                             |            |  |
|             | IMDG: Not dangerous goods                         |                             |            |  |
|             | IATA: Not dangerous goods                         |                             |            |  |
| <b>14.3</b> | <b>Transport hazard class(es) –</b> Not hazardous |                             |            |  |
|             | ADR/RID: -  | IMDG: -                     | IATA: -    |  |
| <b>14.4</b> | <b>Packaging group</b> - Fragile                  |                             |            |  |
| <b>14.5</b> | <b>Environmental hazards</b>                      |                             |            |  |
|             | ADR/RID: none                                     | IMDG Marine pollutant: none | IATA: none |  |

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## SECTION 15: Regulatory information

|             |  |  |
|-------------|--|--|
| <b>15.1</b> | <b>Safety, health and environmental regulations/legislation for the substance or mixture</b> | This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. |
| <b>15.2</b> | <b>Chemical safety assessment</b>  | For this product, a chemical safety assessment was not carried out                     |

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## SECTION 16: Other information

NMR spectrum: by request

HPLC data: RT 9.9` Separon SGX C18 7µm, water/MeCN 20%, 2ml/min