

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product Identifiers**

Product : Gal β 1-4GlcNAc β -sp3-CMG2-DOPE
Product ID Number : 0047-SC2-L1 / 642320
Designation : LN-SC2-L1
Other name : FSL-LN(GALb4GLCNb)-SC2-L1
Trivial name : FSL-N-Acetyllactosamine
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
Website : 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 : Gal β 1-4GlcNAc β -sp3-CMG2-DOPE
Formula : C₁₀₄H₁₆₉N₁₇Na₅O₄₃P
Mol. Weight : 2491.5 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_x), Sulphur oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Not data available

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.

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.

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.

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

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

SECTION 12: Ecological information

12.1 Toxicity

We are not aware of any toxicity for this product.

12.2 Persistence and degradability

Quick degradation by bacteria or fungi etc.

12.3 Bio accumulative potential

No potential

12.4 Mobility in soil

Fast eluting by water

12.5 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport Information

14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es) – Not hazardous

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group - Fragile

14.5 Environmental hazards

ADR/RID: none

IMDG Marine pollutant: none

IATA: none

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

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

SECTION 16: Other information

NMR spectrum: by request

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