

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

Product name: 4-suGal $\beta$ -C3-PA  
Product ID number: 0837-PA  
Oligosaccharide-spacer: 4-O-Su-Gal $\beta$ -OCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>  
Trivial name:  $\beta$ -D-galactose-4-O-sulfate  
Brand: GlycoNZ

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

Identified uses - laboratory chemicals, for laboratory use only

**1.3 Details of the Supplier of the safety data sheet**

GlycoNZ Limited, Scott Laboratory Building, 19 Mount Street, 1010 Auckland, New Zealand, Telephone: +64 9 921 9710

**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**

Substances: PAA Mol. Weight: 30-40 kDa, Label Nature: none  
Sugar Content: 20 mol. %, Label Content: -  
Form: Lyophilized from 5% water solution at +20°C

**SECTION 4: First aid measures****4.1 Description of first aid measures**

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 eyes with water as a precaution.  
If swallowed - never give anything by mouth to an unconscious person. Rinse mouth with water.

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

No harmful effects data obtained

**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, sulphur oxides

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures.**

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

**6.2 Environmental precautions.**

don't 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 isn't necessary

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

At -20°C as lyophilisate or +4°C in solution in a glass or plastic vial

### **7.3 Specific end uses.**

no any requirements

## **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 practice. Personal protective equipment. Eye/face protection - equipment for eye protection tested and approved under appropriate government standards EN 166(EU). Skin protection - 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 contact 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 is not required. Where protection from dusts is desired, use dust masks.

## **SECTION 9: Physical and chemical properties**

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

Appearance: Off-white, pale yellow to cream amorphous.

Odor: Negligible.

Boiling Point: Not determined.

Vapor Pressure: Negligible.

Melting Point: Not determined.

Solubility in water: Very high.

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

### **10.1 Stability:**

Stable under recommended storage conditions.

### **10.2 Incompatibility (Materials to Avoid):**

Unknown

### **10.3 Hazardous Decomposition or By-products:**

Not determined.

### **10.4 Hazardous Polymerisation:**

Without occur.

## **SECTION 11: Toxicological information**

### **11.1 Toxicological effects.**

Acute toxicity - not toxic.

Skin corrosion/irritation - not toxic.

Serious eye damage/eye irritation - no damage.

Respiratory or skin sensitization - no any effects.

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 Persistence and degradability:**

quick degradation by bacteria or fungus etc.

## **12.2 Bioaccumulative potential**

not potential

## **12.3 Mobility in soil**

fast eluting by water

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

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: none IMDG: none IATA: none

### **14.2 UN proper shipping name**

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

### **14.3 Transport hazard class**

not hazard

### **14.4 Packaging group**

fragile

### **14.5 Environmental hazards**

ADR/RID: none IMDG Marine pollutant: none IATA: none

## **SECTION 15: Regulatory information**

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

## **SECTION 16: Other information**

NMR spectrum of initial sugar: by request

HPLC data of initial sugar: RT 8.5` Separon SGX C18 7 µm, water/MeCN 20%, 2 ml/min

Monosaccharide composition according to HPLC analysis after acid hydrolysis: galactose only

References: See Reagent Catalogue