

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name **N-glycolylneuraminic acid**

Product Catalogue Name **CM-NEU-GC-01, CM-NEUGC-100**

CAS-No. **1113-83-3**

Company: Ludger Ltd
Culham Science Centre
Abingdon
Oxfordshire
OX14 3EB

Telephone: 01865 408554

Emergency Telephone: 01865 408554

Email: info@ludger.com

SECTION 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]**

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

2.2 Label elements

The substance does not require any labelling following EC directives or respective national laws.

Signal Word: None required

Hazard Statement(s)

None required

Precautionary Statement(s)

None required

2.3 Other hazard information:

None required

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Synonyms: NeuGc
sialic acid
3,5-dideoxy-5-((hydroxyacetyl)amino)-D-glycero-D-galacto-2-Nonulosonic acid
Neu5Gc
NGNA

Formula: $C_{11}H_{19}NO_{10}$

Molecular Weight: 325.3 g/mol

Component	Concentration	Classification
Name Neu5Gc	100%	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008
CAS-No. 1113-83-3		
EC-No. No data available		

SECTION 4. FIRST-AID MEASURES

4.1 Description of First Aid Measures

General Advice

Consult a physician if exposure causes ill effects and if in any doubt. Show this safety data sheet to the physician/ first responder in attendance.

If Ingested

Rinse mouth well with water.

If the skin is exposed

Wash the exposed area(s) well with plenty of soap and water.

If eyes are exposed

Flush the eye(s) with plenty of water or eye wash solution. If possible and present, remove contact lenses and continue rinsing.

If inhaled

Remove the affected person(s) to a source of fresh air. If the person is not breathing give artificial respiration.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of immediate medical attention and special treatment needed

No data available

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Water spray, dry chemicals, carbon dioxide or foam, are appropriate media for extinguishing fire. Choose the most appropriate for the surrounding fire and materials.

5.2 Special hazards arising from the substance or mixture

Emits toxic fumes of Nitrogen oxides (NO_x) and carbon oxides under fire conditions.

5.3 Advice for Firefighters

Fire fighters to wear self-contained breathing apparatus, if deemed necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing in any material, dust mask if appropriate. Wear laboratory gloves and protective clothing, such as a laboratory coat.

6.2 Environmental Precautions

Do not let the product enter the drainage system.

6.3 Methods and material for containment and cleaning up

Collect the spillage with an absorbent material, such as a paper towel, vermiculite, or sand. Collect and store the spillage/waste material in an appropriately labelled container and arrange collection for disposal. Wash the spillage area with water.

6.4 Reference to other sections

More information on disposal of the product is in Section 13.

SECTION 7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid contact with skin, inhalation of dust, mists and/or vapours associated with the material. Work with the material in a fume hood. Wear laboratory gloves, coat, and glasses, follow good laboratory practice and wash your hands before and after handling the material.

7.2 Conditions for safe storage, including any incompatibilities

Store below - 18°C. The material is to be stored in original packaging or similar tightly closing packaging.

7.3 Specific end uses

No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Components with workplace control parameters**

This product contains no substances with occupational exposure limit values.

8.2 Exposure controls**Appropriate engineering controls**

Users are to wear personal protective equipment e.g. Laboratory gloves, glasses and coats. Wash hands and avoid contact with skin.

Personal Protective Equipment**Eye/face protection**

Use Safety glasses or goggles, which have been tested and approved under appropriate government standards, such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. The wearer should check for holes/tears before use. Proper glove removal technique should be used, to avoid potential contact with skin. Gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Wash and dry your hands after handling the material.

Body Protection

Wear a laboratory coat or similar coverings.

Respiratory protection

Respiratory protection is not required. It is recommended where possible to handle the product under extraction when used as part of a kit.

Thermal hazards

No data available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance	Opaque crystalline powder
Odour	None
Odour threshold	No data available
pH	No data available
Freezing/Melting Point	No data available
Initial boiling point and boiling range	No data available
Flash Point	No data available
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Vapour Pressure	No data available
Relative Density	No data available
Solubility in water and solvents	Freely soluble
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

9.2 Other information

No data available

SECTION 10. STABILITY AND REACTIVITY**10.1 Reactivity**

No data available

10.2 Chemical stability

Stable when stored at recommended temperature. Store at -18°C.

10.3 Possibility of Hazardous Reactions

No data available

10.4 Conditions to Avoid

Avoid exposure to sources of heat and humidity.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Exposure to high temperatures, decomposition material emits toxic fumes of NOx.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

NTP, IARC and OSHA: No components of this product present at levels greater than or equal to 0.1% are identified as probable, possible or confirmed human carcinogen.

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard.

No data available

Potential Health Hazards

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through the skin. May cause skin irritation.
Eyes	Causes eye irritation.

Signs and symptoms of exposure

Possible hypersensitivity to material.

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity**

No data available

12.2 Persistence and Degradability

No data available

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**

Any waste substances should be disposed of by a licensed professional disposal company.

Contaminated packaging

Dispose of as a used product/material.

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)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packing group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: No

IMDG Marine pollutant: No

IATA: No

14.6 Special precautions for user

No data available

SECTION 15. REGULATORY INFORMATION

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

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

Regulatory information: EINECS# 205-023-1

15.2 Chemical Safety Assessment

No data available

Please note that the label elements that used to go in Section 15 are now in Section 2.

SECTION 16. OTHER INFORMATION

The advice offered is derived from the currently available information on the hazardous materials in this product and its component(s). Consideration has been made regarding the quantities offered in the pre-dispensed container. The advice offered is, therefore not all-inclusive nor should it be taken as the descriptive of the compound generally.