

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING**Product Name **5-N-Acetyl-9-O-acetyl neuraminic acid**Product Catalogue Names **CM-NEU5,9AC2-01**CAS-No. **55717-54-9**Company: Ludger Ltd  
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**SECTION 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]**

Eye irritation (Category 2)

**2.2 Label elements**

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

Signal Word: None required

**2.3 Other hazard information:**

None

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

Formula: Please see CofA for the product or contact Ludger for more information.

Molecular Weight: Please see CofA for the product or contact Ludger for more information.

Component		Concentration
Name	Neu5,9Ac2 standard	100%
CAS-No.	55717-54-9	
EC-No.	-	

Substance name 9-O-Acetyl-N-acetyl-neuraminic acid

Synonyms 9-Anana;9-Acetate N-acetyl-neuraminic acid;5-N- Acetyl-9-O-acetyl neuraminic acid

Formula C<sub>13</sub>H<sub>21</sub>NO<sub>10</sub>

**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**

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**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<sub>x</sub>) 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 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 must 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. 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 NO<sub>x</sub>.

## 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% is 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 current 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.