

Version: 2.0

Date Written: 21 August 2012 Date reviewed: 02 March 2021

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

Product Name Chitotriose

Product Catalogue Name BQ-CHITOTRIOSE-01

CAS-No. **38864-21-0**

Company: Ludger Ltd

Culham Science Centre

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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 [EU-GHS/CLP]

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

2.3 Other hazard information:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms: N, N', N"-Triacetyl Chitotriose

Formula: $C_{24}H_{41}N_3O_{16}$ Molecular Weight: 627.59

Component		Concentration
Name	Chitotriose	100%
CAS-No.	38864-21-0	

SECTION 4. FIRST-AID MEASURES

4.1 Description of First Aid Measures

If ingested

Rinse mouth well with water.

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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.

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 (NOx) 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 without creating dust. 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 and eyes, inhalation of dust, mists and/or vapours associated with the material. 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.

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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.

Thermal hazards

No data available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Opaque crystalline powder Appearance

Odour None

Odour threshold No data available No data available

Melting point/range:- 245-247°C lit. Freezing/Melting Point

Initial boiling point and boiling range 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 ca. 50a/l

Partition coefficient No data available Autoignition temperature No data available No data available Decomposition temperature Viscosity No data available Explosive properties No data available Oxidising properties No data available

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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

Other decomposition products - No further data available.

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

IARC: 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

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Aspiration hazard.

No data available

Potential Health Hazards

Route of Exposure;

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through the skin. Causes skin irritation.

Eyes Cause serious eye irritation.

Signs and symptoms of exposure

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

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: -

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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 No data available

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.

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