

Version: 1.2

Date written: 1st February 2012 Date reviewed: 16th Sep 2020

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

Product Name Xylose Standard

Product Catalogue Name CM-XYLOSE-100

CAS-No. **58-86-6**

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]

Not a hazardous substance 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: Wood Sugar Formula: $C_5H_{10}O_5$ Molecular Weight: 150.13

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Component		Concentration
Name	Xylose	-
CAS-No.	58-86-6	
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

No data available

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. Wear laboratory gloves and protective clothing, such as a laboratory coat.

6.2 Environmental Precautions

No data available

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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 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. 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

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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 4.5 - 6.0 Melting Point/ Freezing point 154-158°C

Initial boiling point and boiling range

Flash Point

Evaporation rate

Flammability

Upper/lower flammability or explosive limits

Vapour Pressure

No data available

Relative Density 1.525g/cm3

Solubility in water and solvents

Partition coefficient

Autoignition temperature

Decomposition temperature

Viscosity

No data available

No data available

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 moisture.

10.5 Incompatible materials

Strong oxidisers.

10.6 Hazardous decomposition products

No data available

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - > 2,200 mg/kg Remarks: (ECHA)

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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 component 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

Acute oral toxicity - Possible damages: Stomach/intestinal disorders, The substance has a laxative effect.

STOT-repeated exposure

No data available

Aspiration hazard.

No data available

Potential Health Hazards

InhalationPossible allergic reaction to the material.IngestionPossible allergic reaction to the material.SkinPossible allergic reaction to the material.EyesPossible allergic reaction to the material.

Signs and symptoms of exposure

Possible hypersensitivity to material.

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 104 Weeks - No observed adverse effect level - 2,214 mg/kg

(ECHA)

RTECS: Not available

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

Biodegradability aerobic - Exposure time 15 d Result: 62.9 % - Readily biodegradable

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12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No ecological problems are to be expected when the product is handled and used with due care and attention.

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 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.

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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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