
1 IDENTIFICATION

Product Identifier	N6-(1-Deoxy-D-fructos-1-yl)-L-lysine
Synonym(s)	Fructosyl-lysine
Catalogue Number	DF621
Recommended Use	Laboratory R&D
Manufacturer / Supplier	Synthose Inc. 50 Viceroy Road, Unit 7 Concord, Ontario, L4K 3A7, Canada
Phone	+1-905-669-0017
Email	admin@synthose.com
Emergency Phone	+1-905-669-0017

2 HAZARD IDENTIFICATION

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance Name	N6-(1-Deoxy-D-fructos-1-yl)-L-lysine
Synonym(s)	Fructosyl-lysine
CAS RN	21291-40-7
Chemical Formula	C ₁₂ H ₂₄ N ₂ O ₇
Molecular Weight	308.33

4 FIRST AID MEASURES

Symptoms and Effects of Exposure

Not determined.

General Advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

If Inhaled

Move to fresh air. If required, give artificial respiration. Consult a physician.

In Case of Skin Contact

Remove contaminated clothing and shoes. Wash off with soap and plenty of water. Consult a physician.

In Case of Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

If Swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 FIRE FIGHTING MEASURES

Conditions of Flammability

Not flammable or combustible.

Suitable Extinguishing Media

Dry chemical

Unsuitable Extinguishing Media

Not determined

Hazardous Combustion Products

Carbon oxides, Nitrogen oxides

Special Protective Equipment for Firefighters

Wear self-contained breathing apparatus and full protective gear.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear respiratory protection. Ensure adequate ventilation. Avoid breathing vapors, mist or gas.

Environmental Precautions

Do not allow product to be released to the environment. Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Avoid inhalation and ingestion. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for Safe Storage

Keep container tightly closed in a dry and well-ventilated place. Ships ambient. Long term storage recommended at -20°C.

Incompatible Materials

Not determined

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

Not determined

Appropriate Engineering Controls

Use mechanical exhaust or laboratory fume hood to avoid exposure.

Individual Protective Measures

Respiratory Protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection

Handle with gloves. 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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection

Wear safety glasses with side-shields conforming to EN166, chemical safety goggles, or face shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body Protection

Wear protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Beige Solid
Odour	Not determined
Odour Threshold	Not determined
pH	Not determined
Melting Point Range	Not determined
Boiling Point Range	Not determined
Flash Point	Not determined
Evaporation Rate	Not determined
Flammability	Not determined
Lower flammable/explosive limit	Not determined
Upper flammable/explosive limit	Not determined
Vapour Pressure	Not determined
Vapour Density	Not determined
Relative Density	Not determined
Solubility	H2O, DMSO
Partition Coefficient n-octanol / water	Not determined
Auto-Ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Not determined

10 STABILITY AND REACTIVITY

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Not determined

Conditions to Avoid

Not determined

Incompatible Materials

Not determined

Hazardous Decomposition Products

Formed under fire conditions: Carbon oxides, Nitrogen oxides

11 TOXICOLOGICAL INFORMATION

Signs and Symptoms of Exposure**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

Skin Contact

May be harmful if absorbed through skin. May cause skin irritation.

Eye Contact

May cause eye irritation

Ingestion

May be harmful if swallowed

Chronic Effects of Exposure

Not determined

Acute Toxicity

Not determined

12 ECOLOGICAL INFORMATION

Not determined

13 DISPOSAL CONSIDERATIONS

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14 TRANSPORT INFORMATION

UN	Not hazardous for transport
NA / DOT	Not hazardous for transport

15 REGULATORY INFORMATION

DSL / NDSL Status	The components of this product are not on the DSL Inventory but are manufactured at <100kg per year.
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16 OTHER INFORMATION

Date of the Latest Revision of the SDS

2017-12-15

HMIS Classification

Health Hazard	0
Flammability	0
Physical Hazard	0