

fruitose[®] Crystalline Fructose

1. Identification of the substance or preparation

Product name: Fruitose[®]

Chemical name: β-D-Fructose/ Levulose

Chemical formula: C₆H₁₂O₆

Use of the substance/preparation: sweetener

Manufacturer:

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2. Hazards identification

Classification

Physical/Chemical Hazards

Human Health Hazards Health Hazard (Acute and chronic): None.

Inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use. None under normal conditions.

Skin/Eye contact: Not expected to present a significant skin/eye contact hazard under anticipated conditions of normal use. None under normal conditions.

Ingestion: Not hazardous (the product is food grade).

Carcinogenicity: None.

Signs and symptoms of exposure: None.

3. Composition/Information on ingredients

ingredients name	CAS number	%
Fructose	57-48-7	99.5
Water (Moisture)		0.5
Formula	C ₆ H ₁₂ O ₆	
Synonym	Fruit sugar, arabino-Hexulose, Levulose, Nevulose	



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4. First aid measures

Eye contact	Flush with water for 15 minutes. Seek medical attention if ill effect or irritation develops.
Skin contact	No Hazard.
Inhalation	Nuisance dust, if exposed to excessive level of dust remove to fresh air, Get medical attention if persistent cough or other symptoms develop.
Ingestion	No Hazard.

5. Fire - fighting measures

Extinguishing media suitable	Water spray, Foam, Carbon dioxide, dry chemical powder.
Special Fire Fighting procedures	Protective equipment: wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual Fire explosion Hazards	Dust dispersed in air becomes explosive when exposed to ignition source.

6. Accidental release measures

Personal precautions	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.
Environmental precautions	Biodegradable
Methods for cleaning up	Sweep or shovel spills into appropriate container for disposal. Sweep up with explosion proof vacuum cleaner. Can be hosed down in normal sewage with plenty of hot water. Avoid making dust.

7. Handling and storage

Handling	Avoid raising any powdered material into dust explosion hazard. Avoid static build up - all apparatus should be earthed.
Storage	Store in dry protected location to prevent moisture contact. Dust should be removed by extraction or ventilation. There should be no smoking, welding or open flame in the storage area.



8. Exposure controls/personal protection

Eye protection	Safety glasses may be desirable when dumping bags.
Skin protection	Not required.
Respiratory protection	Use appropriate mask when necessary
Hand and body protection	Not required.
Work/Hygiene practice	Practice good housekeeping.

9. Physical and chemical properties

General information appearance	
Physical state at 25°C	Crystalline
Color	White
Odor	Odorless
Bulk density at 25°C	~ 700 (loose) [g/l]
pH value in distilled water	~ 5 (20% suspension in water)
Min. Ignition Temp (MIT)	350°C
Melting point	~ 103°C
Min. Ignition Energy (MIE)	30 MJ
Lower Explosion limits	100 g/m ³
Pmax	7.5 bar
Solubility in water	~ 80% weight (20°C)
Kst	140 bar·m/sec

10. Stability and reactivity

Stability	Stable under normal conditions
Incompatibility (materials to avoid)	Avoid strong acids and oxidizers.
Hazardous Decomposition or Byproducts	Burning can produce CO and CO ₂ .



11. Toxicological information

Potential acute health effects	
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion	None
Skin and body contact	May cause skin irritation.
Eye contact	May cause eye irritation.
Acute toxicity	None
Potential chronic health effects	
Carcinogenicity	None (see section 2)
Mutagenicity	None

12. Ecological information

COD ~ 1100 mgO₂/g

BOD ~ 700 mgO₂/g

No significant environmental hazard or adverse effect from human exposure resulting from the accidental release of this material is anticipated.

13. Disposal consideration

Product : APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
Packaging	Packaging must be disposed of in compliance with country specific regulations.



14. Transportation information

Transport information	Not classified as dangerous in the meaning of transport regulation.
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15. Regulatory information

EU regulations hazard symbol/symbols	None
Risk phrases	None
Safety phrases	None
Product use	Food application

16. Other information

Recommended uses	Food application
Other	Complies with USP, EP, FCC and Codex Alimentarius

The information contained herein is correct to the best of our knowledge, it characterizes the above product in terms of its safety requirement and it is given as a guide for the safe use, handling, disposal, storage, and transportation and is not to be considered a warranty or quality specification. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are herein, we cannot guarantee that these are the only hazards that exist.



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