

# Material Safety Data Sheet

Version 04 • Date: 01.02.2011 • Conforms with EU Directive 91155/EEC, as amended by 200158/EEC

**Fruitose**<sup>®</sup>  
**Crystalline Fructose**  
Naturally Sweet, Naturally Energizing



## 1 Identification of the substance or preparation

Product name:	Fruitose <sup>®</sup>
Chemical name:	β-D-Fructose/ Levulose
Chemical formula:	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>
Use of the substance/preparation	Natural sweetener
Manufacturer:	Galam Ltd. Mobile Post Menashe 37855 ISRAEL
Emergency telephone number:	Galam –Israel : Tel +972 4 6375023 Mobile + 972 54 4921245
Web Page	<a href="http://www.galamgroup.com">www.galamgroup.com</a>

## 2 Composition/Information on ingredients

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

## 3 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.



**Galam Group**  
Refining Nature's Raw Materials  
[www.galamgroup.com](http://www.galamgroup.com)

# Material Safety Data Sheet

Version 03 • Date: 3.1.2010 • Conforms with EU Directive 91155/EEC, as amended by 200158/EC



## 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.



**Galam Group**  
Refining Nature's Raw Materials  
[www.galamgroup.com](http://www.galamgroup.com)

# Material Safety Data Sheet

Version 03 • Date: 3.1.2010 • Conforms with EU Directive 91155/EEC, as amended by 200158/EEC

**Fruitose**<sup>®</sup>  
**Crystalline Fructose**  
Naturally Sweet, Naturally Energizing



## 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)
Boiling point	N/A
Melting point	~ 103°C
Flash point	N/A
Explosion limits	N/A
Flammability	N/A
Solubility in water	~ 80% weight (20°C)

## 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 <sub>2</sub> .



**Galam Group**  
Refining Nature's Raw Materials  
[www.galamgroup.com](http://www.galamgroup.com)

# Material Safety Data Sheet

Version 03 • Date: 3.1.2010 • Conforms with EU Directive 91155/EEC, as amended by 200158/EEC



## 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 3)
Mutagenicity	None

## 12 Ecological information

	COD ~ 1100 mgO <sub>2</sub> /g BOD ~ 700 mgO <sub>2</sub> /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 : <b>APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION</b>	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.
<b>Packaging</b>	Packaging must be disposed of in compliance with country specific regulations.



**Galam Group**  
Refining Nature's Raw Materials  
[www.galamgroup.com](http://www.galamgroup.com)

# Material Safety Data Sheet

Version 03 • Date: 3.1.2010 • Conforms with EU Directive 91155/EEC, as amended by 200158/EC



## 14 Transportation information

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

## 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

## 17 Notice to reader

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.



**Galam Group**  
Refining Nature's Raw Materials  
[www.galamgroup.com](http://www.galamgroup.com)