

SAFETY DATA SHEET

Date of revision: 2nd February 2021

Version 1.8

According to Regulation:

(EC) No 1907/2006 as amended and US OSHA HCS 2012

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	Frutalose ® products
Product code	Frutalose L85, Frutalose LF85, Frutalose SL85, Frutalose L90, Frutalose L92, Frutalose SF75
Product use	Food ingredient in consumer product

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Food ingredient for fiber enrichment, sugar or fat replacement in several food, pet food and feed applications

Uses advised against
None known.

1.3 Details of the supplier of the safety data sheet

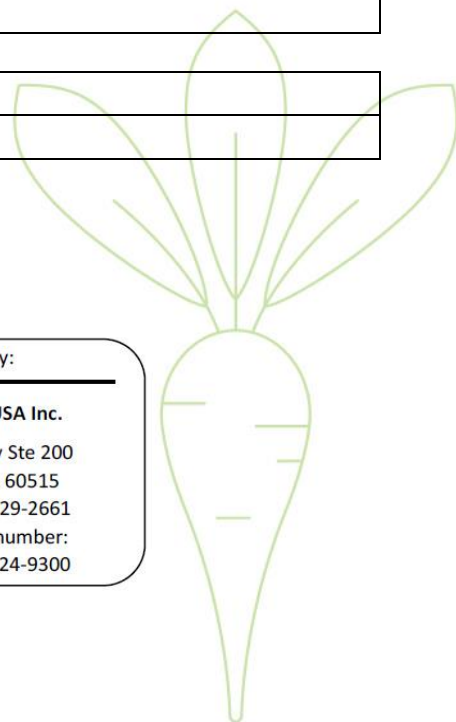
Manufacturer/ Distributor/ Importer	Sensus Oostelijke Havendijk 15, 4704 RA Roosendaal The Netherlands
e-mail contact for competent person	sensus@sensus.nl

1.4 Emergency telephone number

Contact the nearest sales agent or +31 165 582 500

Distributed by:

Univar Solutions USA Inc.
3075 Highland Pkwy Ste 200
Downers Grove, IL 60515
Telephone: 1-855-429-2661
Emergency phone number:
CHEMTREC 1-800-424-9300



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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS) Not classified

2.2 Label elements

Labelling according to Regulation EC) No. 1272 / 2008: No Labelling required

2.3 Other hazards

Other hazards which do not result in classification Not applicable

SECTION 3: Composition/information on ingredients

3.1 Ingredients

None of the ingredients is currently classified as hazardous according to Regulation (EC) No. 1272/2008. The products are comprised mainly of oligofructose /inulin and small amounts of natural sugars such as fructose, glucose and sucrose.

SECTION 4: First aid measures

4.1 Description of first aid measures

Ingestion	No action required.
Inhalation	After inhalation of large quantities, keep the airways open and contact a doctor.
Eye contact	Rinse with excess water.
Skin contact	Wash off with water.

4.2 Most important symptoms and effects, both acute and delayed

See section 11

4.3 Indication of any immediate medical attention and special treatment needed

No specific treatment is required.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical, or CO₂.

Unsuitable extinguishing media None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture None known.

Hazardous combustion products May produce toxic gases such as carbon oxides in case of fire.

5.3 Advice for fire fighters

Special precautions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training.
Keep unnecessary and unprotected personnel from entering. Try to avoid touching or walking through spilt material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Environmental precautions Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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6.3 Methods and materials for containment and cleaning up

Spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.
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6.4 Reference to other sections

Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

Protective measures	Wear appropriate personal protective equipment if and as required (see Section 8)
Advice on general occupational hygiene	Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities	Store at cool to normal ambient temperatures under dry conditions, in air- and watertight package.
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7.3 Specific end use(s)

Recommendations	The product is used as a direct food additive. Therefore, hygienic measures shall be adopted in line with requirements for food processing. Big temperature fluctuations should be prevented in order to avoid condensation of water on the inside of the packaging as this can lead to microbiology risks.
Industrial sector specific solutions	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits	No occupational exposure limits established for any of the ingredients.
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8.2 Exposure controls

Respiratory protection	None, or simple inhalation mask to protect against inhalation of aerosols if formed and for hygienic reasons.
Other protective clothing or equipment	Gloves (for reasons of hygiene) are recommended. For safety reasons no engineering equipment is required, unless aerosol formation becomes likely; in such case consider local exhaust ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Viscous syrup, colorless to slight yellow
Odor	Odorless
Taste	Neutral to slightly sweet taste
pH	5 - 7
Melting point	Not determined
Boiling point	Not determined
Flash point	Not determined
Flammability	Non-flammable (based on experience)
Vapor pressure	Negligible (based on experience)
Relative density	approx. 1.4 kg/L (at 20 °C)
Bulk density	Not applicable
Solubility in water	>75%
Partition coefficient	(n-octanol/water) Not determined
Viscosity	approx. 5000 mPas (20 °C)
Explosive properties	Non-explosive (based on assessment of functional groups)
Oxidizing properties	Non oxidizing (based on assessment of functional groups)

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity	No specific test data related to reactivity available for this product.
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10.2 Chemical stability

Chemical stability	These products are stable at cool conditions. The product should be kept cool (<7°C, 44.6°F) in its original packaging.
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10.3 Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
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10.4 Conditions to avoid

Conditions to avoid	None
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10.5 Incompatible materials

Incompatible materials	None
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10.6 Hazardous decomposition products

Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products will not be produced.
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SECTION 11: Toxicological information

Significant effects or critical hazards	No known significant effects or critical hazards. Inulin/oligofructose, fructose, glucose and sucrose are naturally occurring substances used in food processing for centuries and widely known to be safe. No hazards are known being relevant to classification according to Regulation (EC) No. 1272/2008.
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Potential health effect

Ingestion	Not limited by ADI-value. Excessive intake may cause flatulence.
Inhalation	No known health risks. Inhaling of large quantities of powder may affect the ability to breathe.
Eye contact	Physical irritation may occur.
Skin contact	No known health risks.
Respiratory or skin sensitization	No test data available.
Germ cell mutagenicity	No test data available.
Carcinogenicity	No test data available.
Reproductive toxicity	No test data available.
Repeated dose toxicity	No test data available.
Aspiration hazards	Not applicable to solids

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SECTION 12: Ecological information

Inulin has no known negative environmental effects. Because inulin is a natural polysaccharide, it is easily biologically degradable.

The components are not considered persistent or bioaccumulative, nor are they considered toxic. Given a significant water solubility the components are expected to be mobile in sediment and soil.

SECTION 13: Disposal considerations

Remove in accordance with local rules and regulations. In general dry material can be put on a dumping ground. Wet material can be disposed by the sewer, if diluted, to prevent blockage.

SECTION 14: Transport information

Product is non hazardous. No special precautions required for transport according to ADR/RID, ADN, IMDG-Code or ICAO/IATA-regulations.

The Product is not subject to Marpol 73/78 or IBC Code restrictions, when shipped in bulk.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Food ingredient status:

EU countries	: Ingredient (no E-number)
USA	: GRAS status

Use *ad libitum* in all food categories.

Hazard Symbol (DPD)	: None required
Risk phrases (DPD)	: None required
Safety phrases (DPD)	: None required

15.2 Chemical Safety Assessment

Chemical Safety Assessment	Not applicable
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SECTION 16: Other information

Abbreviations and acronyms

ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bio concentration Factor
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
DPD = Dangerous Preparations Directive [1999/45/EC]
EC = European Commission
EUH statement = CLP-specific Hazard statement
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OEL = Occupational Exposure Limit
PBT = Persistent, Bio accumulative and Toxic
PNEC = Predicted No Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH # = REACH Registration Number
vPvB = Very Persistent and Very Bio accumulative

The classification of this mixture according to CLP was performed by applying the conventional method, considering that none of the components is subject to classification according to CLP.

Procedure used to derive the classification according to Regulation (EC) No.1272/2008[CLP/GHS]

The information above is believed to be accurate and represents the best information currently available to Sensus. However, no warranty, guarantee or representation is made concerning its accuracy and completeness. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine the environmental regulatory compliance obligations under any applicable federal or state laws

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