

TECHNICAL DATA



<b>PRODUCT NAME:</b>	FruSweet®
<b>ICON FOODS PRODUCT CODE NUMBER:</b>	1301
<b>DESCRIPTION:</b>	Fructose, known for years as "Fruit Sugar" because of its natural occurrence in many fruits, is the sweetest of the natural sugars. Although chiefly used for its power where it can exhibit sweetness up to 1.8 times that of sucrose, fructose offers many unique benefits which today's food technologist can utilize to optimize product formulation and marketing strategies. FruSweet's participation in browning reactions and its humectant capability make it ideal for use in reduced calorie baked goods. Its ability to maintain the freezing depression point benefits production of frozen beverages or frozen desserts. High solubility and ease of use make it the ideal sweetener for a variety of applications including beverages, cereals, dairy products, sauces, jams, jellies and frozen foods.
<b>COMPOSITION:</b>	Crystalline fructose.
<b>COUNTRY OF ORIGIN:</b>	Turkey
<b>ALLERGENS:</b>	FruSweet® does not contain any commonly known sources of allergens. Labeling is not required under the FDA Food Allergen Labeling and Consumer Protection Act of 2004 or EU Directive 2007/68/EC
<b>KOSHER:</b>	FruSweet is kosher certified.
<b>BSE:</b>	No animal derived ingredients are used in the production of FruSweet.
<b>LABELING:</b>	FruSweet complies with limits established for residual pesticides as per USP <561>. FruSweet may be labeled as a "natural" ingredient under the regulations of the U.S. FDA and FTC.
<b>PACKAGING &amp; RECOMMENDED STORAGE CONDITIONS:</b>	FruSweet comes in a 25 kg box with poly inner bag. FruSweet should be stored in a cool & dry location in ambient conditions, not to exceed 85 degrees Fahrenheit. For long term storage, please keep refrigerated. Shelf life is 36 months when stored under recommended conditions.
<b>REMARKS:</b>	This item is a raw material for commercial use only.

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

TECHNICAL DATA (CONT.)

PRODUCT NAME: FruSweet



PARAMETERS	SPECIFICATIONS	METHODS
ASSAY: FRUCTOSE	≥ 99%	HPLC
APPEARANCE	Crystalline	Visual Inspection
COLOR	White	Visual Inspection
LOSS ON DRYING	≤ 0.5%	USP/NF 731
SWEETNESS (COMPARED TO SUCROSE)	1 – 2	ISO 5492:2008
RESIDUE ON IGNITION	≤ 0.2%	USP31<281>
MESH SIZE	20 – 60 mesh	ASTM 136/C136M
pH (20°C)	5.0 – 7.0	AOAC 973.41
METHANOL	≤ 200 ppm	EPA 5021
ETHANOL	≤ 5000 ppm	EPA 5021
TOTAL HEAVY METALS	≤ 10 ppm	AOAC 993.14
LEAD	≤ 1 ppm	AOAC 993.14
CADMIUM	≤ 0.2 ppm	AOAC 993.14
ARSENIC	≤ 1 ppm	AOAC 993.14
MERCURY	≤ 1 ppm	AOAC 993.14
TOTAL PLATE COUNT	≤ 1000 cfu/g	US Pharmacopeia Chapter 60
<i>E. COLI</i>	Negative/10g	US Pharmacopeia Chapter 60
COLIFORM	≤ 10 cfu/g	US Pharmacopeia Chapter 60
YEAST & MOLD	≤ 100 cfu/g	US Pharmacopeia Chapter 60
SALMONELLA	Negative/25g	US Pharmacopeia Chapter 60



  
 Thomas J. King  
 Icon Foods, Inc.

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**CERTIFICATE OF ANALYSIS**

**PRODUCT NAME:** FruSweet



**LOT CODE:** 1301 UU YY MM DD BB

**MANUFACTURE DATE:** MM/DD/YYYY

**BEST BY:** MM/DD/YYYY

**INGREDIENTS:** Fructose.

ITEMS	STANDARD	RESULTS	TEST METHOD
ASSAY: FRUCTOSE	≥ 99%	Complies	HPLC
APPEARANCE	Crystalline	Complies	Visual Inspection
COLOR	White	Complies	Visual Inspection
LOSS ON DRYING	≤ 0.5%	Complies	USP/NF 731
SWEETNESS (COMPARED TO SUCROSE)	1 – 2	Complies	ISO 5492:2008
RESIDUE ON IGNITION	≤ 0.2%	Complies	USP31<281>
MESH SIZE	20 – 60 mesh	Complies	ASTM 136/C136M
pH (20°C)	5.0 – 7.0	Complies	AOAC 973.41
METHANOL	≤ 200 ppm	Complies	EPA 5021
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MERCURY	≤ 1 ppm	Complies	AOAC 993.14
TOTAL PLATE COUNT	≤ 1000 cfu/g	Complies	US Pharmacopeia Chapter 60
<i>E. COLI</i>	Negative/10g	Complies	US Pharmacopeia Chapter 60
COLIFORM	≤ 10 cfu/g	Complies	US Pharmacopeia Chapter 60
YEAST & MOLD	≤ 100 cfu/g	Complies	US Pharmacopeia Chapter 60
SALMONELLA	Negative/25g	Complies	US Pharmacopeia Chapter 60

*Oregon department of agriculture, food safety division establishment #88294  
 FDA food manufacturing facility #xxxxxxx6608*

*Remarks: This item is a raw material for commercial use only.*

*Storage: Store in a cool & dry location, not to exceed 85-degree Fahrenheit.  
 For long term storage, please keep refrigerated.*

**ISSUED BY:**

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## COUNTRY OF ORIGIN STATEMENT

Oregon Department of Agriculture, Food Safety Division Establishment #88294

Compliant with JECFA guidelines

This letter is to certify that FruSweet sold by Icon Foods, Inc. at the Portland, Oregon, USA facility, is manufactured in Turkey.

If you have any questions, please contact Icon Foods Quality Assurance Division at 310-455-9876.

A handwritten signature in blue ink, appearing to read "TJ King".

Thomas J. King  
Icon Foods, Inc.

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INGREDIENT STATEMENT

PRODUCT INGREDIENT LIST  
PRODUCT NAME: FruSweet  
PRODUCT NUMBER: 1301

INGREDIENTS	% RANGE COMPOSITION
Crystalline Fructose	100%

MANUFACTURING FACILITY:

ICON FOODS, INC.  
19250 NE PORTAL WAY  
PORTLAND, OR 97230  
P: 310.455.9876

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## 100G NUTRITIONAL SPECIFICATIONS

PRODUCT NAME: FruSweet

### NUTRITIONAL FACTS

Calories	400 kcal	
Total Fat	0 g	0%
Saturated Fat	0 g	0%
Trans Fat	0 g	
Cholesterol	0 mg	0%
Sodium	0 mg	0%
Total Carbohydrate	100 g	36%
Dietary Fiber	0 g	0%
Total Sugars	0 g	
Includes 0g Added Sugars	0%	
Protein	0 g	
Vitamin D	0 mcg	0%
Calcium	0 mg	0%
Iron	0 mg	0%
Potassium	0 mg	0%

\*The % Daily Value tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

### CARBOHYDRATES

### AMOUNTS PER 100G

Total Carbohydrate	100.0g
Dietary Fiber	0.0g
Starch	0.0g
Sugars	100.0g
Sugar Alcohols	0.0g

### FATS & FATTY ACIDS

### AMOUNTS PER 100G

Total Fat	0.0g
Saturated Fat	0.0g
Monounsaturated Fat	0.0g
Polyunsaturated Fat	0.0g
Total Trans Fatty Acids	0.0g

### PROTEIN & AMINO ACIDS

### AMOUNTS PER 100G

Protein	0.0g
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### VITAMINS

### AMOUNTS PER 100G

Vitamin A	0.0 IU
Vitamin C	0.0 mg
Vitamin D	0.0 IU
Vitamin E (Alpha Tocopherol)	0.0 mg

### MINERALS

### AMOUNTS PER 100G

Calcium	0.0 mg
Iron	0.0 mg
Potassium	0.0 mg
Sodium	0.0 mg

### OTHER

### AMOUNTS PER 100G

Water	≤ 1.0 g
Ash	≤ 1.0 g

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## SAFETY DATA SHEET

PRODUCT NAME: FruSweet

ICON FOODS, INC. – USA | PRODUCT #: 1301

CAS REGISTRY NUMBER: 57-48-7

OREGON DEPARTMENT OF AGRICULTURE, FOOD & SAFETY DIVISION ESTABLISHMENT #88294

FDA FOOD MANUFACTURING FACILITY #\*\*\*\*\*6608

COMPLIANT WITH JECFA GUIDLINES

<b>IDENTIFICATION:</b>	Commercial Name: FruSweet Manufacturer: Icon Foods, Inc.
<b>COMPOSITION:</b>	Fructose CAS# 57-48-7 Risk Phrases: None Safety Phrases 25-26: Not Mandatory
<b>HAZARDS:</b>	Not classified as dangerous according to directive 67/548/EEC or its amendments.
<b>FIRST AID MEASURES:</b>	Eye Contact: Wash with water or standard eye wash solution. Seek medical advice if irritation occurs and persists. Oral Ingestion: Essentially edible in small quantity with bland to bitter sweet aftertaste Skin Contact: Wash with water and mild soap.
<b>FIRE FIGHTING MEASURES:</b>	Non-combustible and presents no special fire hazard Extinguishing media: N/A Protective Equipment: Standard equipment
<b>ACCIDENTAL RELEASE MEASURES:</b>	Absorb into an inert material and scrape up. Remove residue by scrubbing with hot water or detergent solution.
<b>HANDLING &amp; STORAGE:</b>	Store in a cool & dry location in ambient conditions, not to exceed 85 degrees Fahrenheit. For long term storage, please keep refrigerated.
<b>EXPOSURE &amp; PERSONAL PROTECTION:</b>	In accordance with good industrial practice and handling, use standard eye protection.
<b>PHYSICAL &amp; CHEMICAL PROPERTIES:</b>	Physical Form: Crystalline powder Color: White Odor: -- Boiling Point: -- Melting Point: -- Viscosity @ 20 degree C: -- Flash Point: -- Flammability Solid/Gas: -- Auto Flammability: -- Specific Refractive: -- Explosive Properties: -- pH (100% Concentrate): -- Oxidizing Properties: -- Vapor Pressure: -- Density: -- Water Solubility: Soluble Other Solubility: In most Basic Food Grade Solvents Partition Coefficient: -- (Octanol/Water): -- Explosive Limits: --
<b>STABILITY &amp; REACTIVITY:</b>	Thermal Decomposition: Stable under normal conditions of use.
<b>TOXICOLOGICAL DATA:</b>	Oral: Essentially non-toxic and edible in small quantity. Dermal: Expected to be essentially non-toxic.

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**ECOLOGICAL INFORMATION:**

Inhalation: Slight Ethanolic Sting – irritation

Toxic Effects: None

Eye: Very Mild/Minimal – Not a transient Conjunctival Irritant at 10% concentrate in water (Eyetex classification).

Biodegradation: Expected to be ultimately biodegradable.

Fish Toxicity: No Data.

**DISPOSAL CONDITIONS:**

Dispose of according to local, state, and federal regulations.

**TRANSPORT INFORMATION:**

UN Number: N/A

UN Name: Not Assigned

IMDG Code/Class: Not Hazardous

IMDG Code Page No: N/A

ICAO/IATA Air Class: Non-Hazardous

ICAO/IATA Air Class Packing Group: N/A

RID/ADR Class: Non-Hazardous

ADNR Class: Non-Hazardous

**REGULATORY INFORMATION:**

Occupational Exposure Limits: N/A

**OTHER INFORMATION:**

Supplementary Dietary/Food Use: FDA GRAS Status within the USA

Information contained herein as well as any representations made regarding this information are believed to be accurate and reliable however no warranty or guarantee, express or implied, is made regarding information and/or product.

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VERSION HISTORY

VERSION #	DATE	REVISIONS	APPROVAL

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ITEM #1301	FruSweet	V1.0	January 27, 2023
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