

TECHNICAL DATA



PRODUCT NAME:	KetoseSweet+ Liquid
ICON FOODS PRODUCT CODE NUMBER:	2103
DESCRIPTION:	<p>KetoseSweet+ liquid is a proprietary blend of liquid allulose, stevia extract and monk fruit extract with a Brix level of ≥ 71.0. Allulose is a “rare” sugar that occurs naturally in wheat, figs, raisins, jackfruit and more.</p> <p>KetoseSweet+ liquid is a low-energy monosaccharide sugar. It is a C-3 epimer of fructose, and has the same molecular formula as fructose and glucose. But unlike fructose and glucose, allulose is not rapidly digested and absorbed making</p> <p>it safe for diabetics, those who follow a low sugar or low carb diet and even those who have adopted a ketogenic lifestyle. KetoseSweet+ liquid passes through the body without being metabolized. It behaves similarly to the polyol, erythritol. KetoseSweet+ liquid does not have a laxative effect.</p> <p>KetoseSweet+ liquid has less than 0.2 calories per gram. KetoseSweet+ liquid has the same temporal profile as invert sugar of HFCS. Plus, it provides the expected mouthfeel that HFCS imparts, leading to a more satisfying flavor and mouthfeel.</p> <p>Considered GRAS (Generally Recognized as Safe) by FDA (Food and Drug Administration), FDA allows the use of allulose in a wide range of food products including: carbonated and non-carbonated beverages; baked goods such as frostings, cakes, pies, pastries, biscuits and rolls; frozen dairy desserts; jams & jellies; sweet sauces; syrups; chewing gum; hard and soft candies; and puddings and fillings. Adds humectancy to foods. This property can be useful in all types of products to prevent “drying out.” As a cryoprotectant, KetoseSweet+ liquid prevents large ice crystals from forming during freezing, which can cause coarse and icy foods and damage many frozen foods.</p>
COMPOSITION:	Liquid allulose, stevia extract, monk fruit extract.
COUNTRY OF ORIGIN:	United States.
ALLERGENS:	KetoseSweet+ Liquid 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
KOSHER:	KetoseSweet+ Liquid is kosher certified.
BSE:	No animal derived ingredients are used in the production of KetoseSweet+ Liquid.
LABELING:	KetoseSweet+ Liquid complies with limits established for residual pesticides as per USP <561>.
PACKAGING & RECOMMENDED STORAGE CONDITIONS:	KetoseSweet+ Liquid comes in 1300-kg totes, 250-kg drums, or 20.5-kg pails. KetoseSweet+ Liquid 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 24 months when stored under recommended conditions.
REMARKS:	This item is a raw material for commercial use only.

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TECHNICAL DATA (CONT.)

PRODUCT NAME: KetoseSweet+ Liquid



PARAMETERS	SPECIFICATIONS	METHODS
ASSAY: ALLULOSE	≥ 90%	Internal Method
ASSAY: STEVIOL GLYCOSIDES	≤ 5%	Internal Method
ASSAY: MOGROSID V	≤ 5%	Internal Method
APPEARANCE	Viscous Liquid	Visual Inspection
COLOR	Clear to Yellowish	Visual Inspection
BRIX	≥ 71.0%	Internal Method
SWEETNESS (COMPARED TO SUCROSE)	1 – 2	ISO 5492:2008
RESIDUE ON IGNITION	≤ 0.5%	USP31<281>
TOTAL HEAVY METALS	≤ 10 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: KetoseSweet+ Liquid



LOT CODE: 2103 UU YY MM DD BB

MANUFACTURE DATE: MM/DD/YYYY

BEST BY: MM/DD/YYYY

INGREDIENTS: Allulose

ITEMS	STANDARD	RESULTS	TEST METHOD
ASSAY: ALLULOSE	≥ 95%	Complies	Internal Method
ASSAY: STEVIOL GLYCOSIDES	≤ 5%	Complies	Internal Method
ASSAY: MOGROSIDE V	≤ 5%	Complies	Internal Method
APPEARANCE	Viscous Liquid	Complies	Visual Inspection
COLOR	Clear to Yellowish	Complies	Visual Inspection
BRIX	≥ 71.0%	Complies	Internal Method
SWEETNESS (COMPARED TO SUCROSE)	1 – 2	Complies	ISO 5492:2008
RESIDUE ON IGNITION	≤ 0.5%	Complies	USP31<281>
TOTAL HEAVY METALS	≤ 10 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 KetoseSweet+ Liquid sold by Icon Foods, Inc. at the Portland, Oregon, USA facility, is manufactured in the United States.

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: KetoseSweet+ Liquid

PRODUCT NUMBER: 2103

INGREDIENTS	% RANGE COMPOSITION
Liquid Allulose	≥ 90%
Stevia Extract	≤ 5%
Monk Fruit Extract	≤ 5%

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: KetoseSweet+ Liquid

NUTRITIONAL FACTS

Calories	30 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	72 g	26%
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	71.68 g
Dietary Fiber	0.0 g
Starch	0.0 g
Allulose	71.68 g
Sugar Alcohols	0.0 g

FATS & FATTY ACIDS

AMOUNTS PER 100G

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

PROTEIN & AMINO ACIDS

AMOUNTS PER 100G

Protein	0.0 g
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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	0.2 mg
Iron	0.0 mg
Potassium	0.4 mg
Sodium	1.0 mg

OTHER

AMOUNTS PER 100G

Water	≤ 27.3 g
Ash	≤ 1.0 g

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SAFETY DATA SHEET

PRODUCT NAME: KetoseSweet+ Liquid
ICON FOODS, INC. – USA | PRODUCT #: 2103
CAS REGISTRY NUMBER: 511-68-8/88901-36-4
OREGON DEPARTMENT OF AGRICULTURE, FOOD & SAFETY DIVISION ESTABLISHMENT #88294
FDA FOOD MANUFACTURING FACILITY #*****6608
COMPLIANT WITH JECFA GUIDLINES

IDENTIFICATION:	Commercial Name: KetoseSweet+ Liquid Manufacturer: Icon Foods, Inc.
COMPOSITION:	Liquid allulose, stevia extract, monk fruit extract. CAS# 511-68-8/57817-89-7/88901-36-4 Risk Phrases: None Safety Phrases 25-26: Not Mandatory
HAZARDS:	Not classified as dangerous according to directive 67/548/EEC or its amendments.
FIRST AID MEASURES:	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.
FIRE FIGHTING MEASURES:	Non-combustible and presents no special fire hazard Extinguishing media: N/A Protective Equipment: Standard equipment
ACCIDENTAL RELEASE MEASURES:	Absorb into an inert material and scrape up. Remove residue by scrubbing with hot water or detergent solution.
HANDLING & STORAGE:	Store in a cool & dry location in ambient conditions, not to exceed 85 degrees Fahrenheit. For long term storage, please keep refrigerated.
EXPOSURE & PERSONAL PROTECTION:	In accordance with good industrial practice and handling, use standard eye protection.
PHYSICAL & CHEMICAL PROPERTIES:	Physical Form: Viscous liquid. Color: Clear to yellowish 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: --
STABILITY & REACTIVITY:	Thermal Decomposition: Stable under normal conditions of use.
TOXICOLOGICAL DATA:	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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