

TECHNICAL DATA



PRODUCT NAME:	MonkSweet LS
ICON FOODS PRODUCT CODE NUMBER:	1502
DESCRIPTION:	MonkSweet LS combines our monk fruit extract and stevia extract. This optimized blend of highly purified, water extracted steviol glycosides and mogroside V (the sweet constituent in monk fruit) delivers an exceptionally clean flavor that is free from bitter notes commonly found in high intensity sweeteners. MonkSweet LS is a natural, high intensity, zero calorie sweetening solution for use in beverages, fruit products, meal replacement bars, cereals, snacks, desserts, ice cream, confectionery products, jams and jellies.
COMPOSITION:	Stevia extract, monk fruit extract.
COUNTRY OF ORIGIN:	United States
ALLERGENS:	MonkSweet LS 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:	MonkSweet LS is kosher certified.
BSE:	No animal derived ingredients are used in the production of MonkSweet LS.
LABELING:	MonkSweet LS complies with limits established for residual pesticides as per USP <561>. MonkSweet LS may be labeled as a "natural" ingredient under the regulations of the U.S. FDA and FTC.
PACKAGING & RECOMMENDED STORAGE CONDITIONS:	MonkSweet LS comes in 20-kg, 10-kg, or 1-kg box/bag. MonkSweet LS 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.
REMARKS:	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: MonkSweet LS



PARAMETERS	SPECIFICATIONS	METHODS
STEVIOL GLYCOSIDES	≥ 50%	Internal Method
MOGROSIDE V	≤ 50%	Internal Method
APPEARANCE	Powder	Visual Inspection
COLOR	Golden/Off-White	Visual Inspection
LOSS ON DRYING	≤ 5.0%	USP/NF 731
SWEETNESS (COMPARED TO SUCROSE)	180 – 220	ISO 5492:2008
RESIDUE ON IGNITION	≤ 0.2%	USP31<281>
MESH SIZE	70 - 110 mesh	ASTM C136/C136M
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
COLIFORMS	≤ 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.

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.

CERTIFICATE OF ANALYSIS

PRODUCT NAME: MonkSweet LS



LOT CODE: 1502 UU YY MM DD BB

MANUFACTURE DATE: MM/DD/YYYY

BEST BY: MM/DD/YYYY

INGREDIENTS: Stevia extract, monk fruit extract.

ITEMS	STANDARD	RESULTS	TEST METHOD
STEVIOL GLYCOSIDES	≥ 50%	Complies	Internal Method
MOGROSIDE V	≤ 50%	Complies	Internal Method
APPEARANCE	Powder	Complies	Visual Inspection
COLOR	Golden/Off-White	Complies	Visual Inspection
LOSS ON DRYING	≤ 5.0%	Complies	USP/NF 731
SWEETNESS (COMPARED TO SUCROSE)	180 – 220	Complies	ISO 5492:2008
RESIDUE ON IGNITION	≤ 0.2%	Complies	USP31<281>
MESH SIZE	70 - 110 mesh	Complies	ASTM C136/C136M
METHANOL	≤ 200 ppm	Complies	EPA 5021
ETHANOL	≤ 5000 ppm	Complies	EPA 5021
TOTAL HEAVY METALS	≤ 10 ppm	Complies	AOAC 993.14
LEAD	≤ 1 ppm	Complies	AOAC 993.14
CADMIUM	≤ 0.2 ppm	Complies	AOAC 993.14
ARSENIC	≤ 1 ppm	Complies	AOAC 993.14
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
COLIFORMS	≤ 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:

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.

COUNTRY OF ORIGIN STATEMENT

Oregon Department of Agriculture, Food Safety Division Establishment #88294

Compliant with JECFA guidelines

This letter is to certify that MonkSweet LS 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.

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.

INGREDIENT STATEMENT**PRODUCT INGREDIENT LIST****PRODUCT NAME:** MonkSweet LS**PRODUCT NUMBER:** 1502

INGREDIENTS	% RANGE COMPOSITION
Stevia Extract	≥ 50%
Monk Fruit Extract	≤ 50%

MANUFACTURING FACILITY:

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

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.

100G NUTRITIONAL SPECIFICATIONS

PRODUCT NAME: MonkSweet LS

NUTRITIONAL FACTS

Calories	80 kcal	
Total Fat	0 g	0%
Saturated Fat	0 g	0%
Trans Fat	0 g	
Cholesterol	0 mg	0%
Sodium	50 mg	0%
Total Carbohydrate	15 g	5%
Dietary Fiber	0 g	0%
Total Sugars	1 g	
Includes 0g Added Sugars		0%
Protein	4 g	
Vitamin D	0 mcg	0%
Calcium	9 mg	0%
Iron	1 mg	6%
Potassium	19 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	15.3g
Dietary Fiber	0.3g
Starch	0.0g
Sugars	1.3g
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	3.56g
---------	-------

CARBOHYDRATES

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	8.6 mg
Iron	0.7 mg
Potassium	19.2 mg
Sodium	50.2 mg

OTHER

AMOUNTS PER 100G

Water	≤ 1.0 g
Ash	≤ 1.0 g

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.

SAFETY DATA SHEET

PRODUCT NAME: MonkSweet LS

ICON FOODS, INC. – USA | PRODUCT #: 1502

CAS REGISTRY NUMBER: 57817-89-7/88901-36-4

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

FDA FOOD MANUFACTURING FACILITY #*****6608

COMPLIANT WITH JECFA GUIDLINES

IDENTIFICATION:	Commercial Name: MonkSweet LS Manufacturer: Icon Foods, Inc.																				
COMPOSITION:	Stevia extract, monk fruit extract. CAS# 149-32-6/57817-89-7/88901-36-4 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:	<table border="0"> <tr> <td>Physical Form: Powder</td> <td>Explosive Properties: --</td> </tr> <tr> <td>Color: Golden/Off-white</td> <td>pH (100% Concentrate): --</td> </tr> <tr> <td>Odor: --</td> <td>Oxidizing Properties: --</td> </tr> <tr> <td>Boiling Point: --</td> <td>Vapor Pressure: --</td> </tr> <tr> <td>Melting Point: --</td> <td>Density: --</td> </tr> <tr> <td>Viscosity @ 20 degree C: --</td> <td>Water Solubility: Soluble</td> </tr> <tr> <td>Flash Point: --</td> <td>Other Solubility: In most Basic Food Grade Solvents</td> </tr> <tr> <td>Flammability Solid/Gas: --</td> <td>Partition Coefficient: --</td> </tr> <tr> <td>Auto Flammability: --</td> <td>(Octanol/Water): --</td> </tr> <tr> <td>Specific Refractive: --</td> <td>Explosive Limits: --</td> </tr> </table>	Physical Form: Powder	Explosive Properties: --	Color: Golden/Off-white	pH (100% Concentrate): --	Odor: --	Oxidizing Properties: --	Boiling Point: --	Vapor Pressure: --	Melting Point: --	Density: --	Viscosity @ 20 degree C: --	Water Solubility: Soluble	Flash Point: --	Other Solubility: In most Basic Food Grade Solvents	Flammability Solid/Gas: --	Partition Coefficient: --	Auto Flammability: --	(Octanol/Water): --	Specific Refractive: --	Explosive Limits: --
Physical Form: Powder	Explosive Properties: --																				
Color: Golden/Off-white	pH (100% Concentrate): --																				
Odor: --	Oxidizing Properties: --																				
Boiling Point: --	Vapor Pressure: --																				
Melting Point: --	Density: --																				
Viscosity @ 20 degree C: --	Water Solubility: Soluble																				
Flash Point: --	Other Solubility: In most Basic Food Grade Solvents																				
Flammability Solid/Gas: --	Partition Coefficient: --																				
Auto Flammability: --	(Octanol/Water): --																				
Specific Refractive: --	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.																				

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.

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).

DISPOSAL CONDITIONS:

Biodegration: Expected to be ultimately biodegradable.
 Fish Toxicity: No Data.

TRANSPORT INFORMATION:

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

REGULATORY 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

OTHER INFORMATION:

Occupational Exposure Limits: N/A

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

Note: Based on its review of information and data submitted by industry, FDA has concluded there is no basis to object to the use of certain refined Stevia preparations in food. These refined Stevia preparations may be lawfully marketed and added to food products sold in the United States.

This conclusion was drawn through a process of self-affirmation which means that the ingredient is found to be safe by an expert panel review, but a notice is not submitted to FDA. In order to obtain a no-objection letter with a GRAS notification, the stevia product must be manufactured under Good Manufacturing Practices regulations and must meet the JECFA specifications for purity, which include the requirement that 95% of the dry weight of the product must consist of the seven glycosides recognized by JECFA.

As published in the Official Journal of the EU as of November 11, 2011, steviol glycosides have been approved for use in foods sold in the European Union. The appropriate regulatory bodies—the joint FAO/WHO Expert Committee on Food Additives (JECFA) and the European Food Safety Authority (EFSA)—agree that the sweetening compound is safe for all populations to consume and is a suitable sweetening option for diabetics.

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.

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.

VERSION HISTORY

VERSION #	DATE	REVISIONS	APPROVAL

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.