



# BEVERAGE ENERGETICS GLOBAL BIO-MOLECULE FUEL SWITCH THE BRAIN - SWITCH THE GAME® NUTRITIONAL NON-ARTIFICIAL INTELLIGENCE

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## NATURAL LOW GLYCEMIC

- NON-CEPHALIC
- NON-INSULINOGENIC
- PLANT BASED
- SWEET FLAVOR SYSTEMS
- NSF® CERTIFIED FOR SPORT (qualification available)
- GLYCEMIC RESEARCH INSTITUTE® CERTIFIED for Gut-Brain Axis

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## CLINICAL TRIALS

IRB BOARD APPROVED HUMAN IN VIVO CLINICAL TRIALS IN CHILDREN, ADULT, AND TYPE 2 DIABETICS.

### LOW GLYCEMIC CERTIFIED

- Diabetic Friendly
- Family Friendly
- Kid-Friendly

### ADVANCED BLOOD SUGAR TECHNOLOGY

- GRAS Status
- Natural Sweet-Flavor Systems
- Low Glycemic per Human In Vivo Clinical Trials:  
FDA & World Health Organization Guidelines

### CLINICAL TRIALS INCLUDING:

- Chocolate candy for children
- Ice Cream for children & adults
- Natural Sweeteners for foods & beverages

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## INVENTOR: FORMULATOR

### DR. ANN DE WEES ALLEN®

- Chief of Biomedical Research
- Chief Science Officer
- Nutritional Neuroscience
- Patented Technology

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## BEVERAGE ENERGETICS BIO-MOLECULE FUEL

United States Patent & Trademark Office USPTO.GOV:  
IC 005. US 005 006 018 044 046 051 052. G&S: Nutraceuticals for use as a dietary supplement for promoting metabolic process of converting carbohydrates and sweet agents to more efficient fuel energy within human body

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## SWITCH THE BRAIN - SWITCH THE GAME®

United States Patent & Trademark Office USPTO.GOV:  
IC 032. US 045 046 048. G & S: Dietary supplement featuring fuel-partitioning biofuels that metabolize to create a source of energy: All-Natural Low Glycemic Diabetic-Friendly Sweetening System



# BEVERAGE ENERGETICS GLOBAL BIO-MOLECULE FUEL

## SWITCH THE BRAIN - SWITCH THE GAME®

### MATERIAL SAFETY DATA SHEET

#### MSDS 2022-2023

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#### BEVERAGE ENERGETICS BIO-MOLECULE FUEL

Proprietary plant-based natural sweeteners, flavor systems, core compounds, products and formulas are manufactured under cGMP; Good Manufacturing Practice Regulations for Dietary Supplements, 21 CFR Part 111 in an FDA compliant facility (NSF Certified Available: has passed NSF Guidelines).

MSDS Documents, Formulas, Research & Science under the direction of Dr. Ann de Wees Allen®, Chief Science Officer, backed by 30-years of Human In Vivo Clinical Trials.

Manufactured and sold per FDA CFR21 Guidelines, Rules & Regulations & Claims per CFR21 Guidelines based on Board Approved Human In Vivo Clinical Trials, including Legal Glycemic Claims.

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#### REGULATORY COMPLIANCE - BACKGROUND

30 years of safe and efficacious formulating, manufacturing, patents-licensing, dietary supplements, functional foods and beverages.

- Over a billion dollars in global sales
- No FDA or FTC violations in over 30 years
- Global Patents Licensing
- First Glycemic Patent Ever Awarded
- Government Regulatory: Approved In U.S., Japan, Thailand, Singapore, Malaysia, China, Mexico, India, among other countries
- Safe use in Humans for over 30 years: No side effect - Used safely by 150,000 humans

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#### MSDS DOCUMENT 2023 PER REQUIRED REGULATORY GUIDELINES

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#### BEVERAGE ENERGETICS GLOBAL BIO-MOLECULE FUEL *SWITCH THE BRAIN - SWITCH THE GAME®* DESCRIPTION

GRAS Status - Natural Sweet-Flavor Systems – Low Glycemic per Human In Vivo Clinical Trials (FDA-WHO Guidelines)

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#### ALLERGIN STATEMENT

Produced with Pomegranate, Pineapple fruit, or other fruits (listed on Label) – Persons allergic to these fruits (or fruit components) may need to avoid this product. Consult your medical professional. Does not contain soy, egg products, milk products, peanuts, nuts, tree nuts (such as coconut), wheat or gluten, or seafood (including fish, Mollusks, or Crustacean).



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<b>PRODUCT NAME</b>	Beverage Energetics Global Bio-Molecule Fuel <i>Switch The Brain - Switch The Game®</i>
<b>REGULATORY</b>	All Ingredients: GRAS
<b>CHEMICAL FAMILY</b>	Non Hazardous Human Grade Natural Fruit Powder - Fruit and Natural Flavors - GRAS Status
<b>MSDS REGULATORY</b>	Material Safety Data Sheets are required under the Occupational Safety and Health Act (OSHA) and corresponding state laws, for substances reflecting any of a broad spectrum of health and/or physical hazards. Per OSHA guidelines, this product as described herein does not pose any such hazards, thereby precluding the requirement for an MSDS for this food product. This MSDS is provided voluntarily (and optionally) as a service to our clients and the food industry.
<b>COUNTRY OF ORIGIN</b>	USA
<b>HISTORY OF USE</b>	On the market, safely and broadly used globally in 250,000 and humans
<b>DESCRIPTION OF USE</b>	A light, free-flowing natural plant-based granular sweet fruit-flavors concentrate which can be used in place of high glycemic sugars, sweeteners, and/or carbohydrates, and artificial or chemical sweeteners.
<b>FEMA - FOOD - BEVERAGE - DIETARY SUPPLEMENT REGULATIONS</b>	Regulated for use in the food, beverage, and nutraceutical industries, and produced in accordance with GMP; and appropriate food regulations; and is not a hazardous chemical.  Per 30 years of Board Approved Human In Vivo Clinical trials, Beverage Energetics Global Bio-Molecule Fuel <i>Switch The Brain - Switch The Game®</i> Sweet-Flavor Systems are Lab-Certified as "Low Glycemic", and may be used in snack foods, beverages, ice cream, chocolate, candy, or any other food as a sweet-flavor base. Legal for use in nutraceuticals and pharmaceutical preparations: Diet and Diabetic-Friendly formulas, and specific products/formulas for children (Kid-Friendly per Clinical Trials). License required for use.

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<b>REGULATORY STATUS</b>	GRAS
<b>FDA REQUIRED DECLARATIONS UNDER 21 CFR:</b>	All ingredients contained in Beverage Energetics Global Bio-Molecule Fuel <i>Switch The Brain - Switch The Game</i> ® Sweet-Flavor Systems are considered "GRAS per guidelines of the Food and Drug Administration."
<b>STORAGE RECOMMENDATIONS</b>	<b>HYGROSCOPIC NATURE</b> Beverage Energetics Global Bio-Molecule Fuel <i>Switch The Brain - Switch The Game</i> ® Sweet-Flavor Systems are hygroscopic and should be kept sealed in a dry, humidity-controlled atmosphere. Recommended shipping and storage: 50 degrees-to-70 degrees F (10 degrees-21 degrees Celsius), with 50% relative humidity. Protect from moisture and heat. Cold storage is acceptable. Do not freeze - Refrigeration is acceptable.
<b>EXPECTED SHELF-LIFE</b>	2-years (24 months) @ < 75 degrees F. Low humidity exposure - 3 years under Storage Recommendations conditions.
<b>PACKAGING</b>	Bulk – sealed bags – or packaged in individual packets or other sealed containers.
<b>GRAS: DOSAGE/INTAKE IN HUMANS</b>	In Beverage Energetics Global Bio-Molecule Fuel <i>Switch The Brain - Switch The Game</i> ® Sweet-Flavor Systems documentation and broad use in over 250,000 tracked subjects; confirmed Low Glycemic status; determined by an independent panel of experts to be Generally Recognized as Safe (GRAS) through scientific procedures, including 3rd party Human In Vivo Clinical Trials, when used as a natural plant-based sweetener/carbohydrate in various food and beverage products, with recommended daily intake at levels similar to that of other GRAS carbohydrates. RDD; Daily dosage: Same as other sweet-carbohydrates, such as sucrose (table sugar) etc.

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**NUTRITION FACTS: FDA LABELING GUIDELINES**

Calories - Carbohydrate are determined by the specific Beverage Energetics Global Bio-Molecule Fuel *Switch The Brain - Switch The Game®* Sweet-Flavor System utilized, and range from 2g Carbohydrate – 2g Low Glycemic Fruit Sugars to higher grams Carbohydrate in Sports Drinks (for burnable fuel in athletes: Sport-Specific). The customer selects the sweetness (BRIX) level and Calorie, Carbs, Sugars content. FATS (0) – PROTEIN (0). This specific Nutrition facts or Supplement Facts labeling data will be supplied to the customer for their specific product(s), along with FDA CFR 21 Regulatory Guidelines CLAIMS.

**HUMAN IN VIVO CLINICAL TRIALS: CLAIMS**

All authorized and approved statements/claims made regarding Beverage Energetics Global Bio-Molecule Fuel *Switch The Brain - Switch The Game®* Sweet-Flavor System are backed by Board Approved Human In-Vivo Clinical Trials in non-diabetics, Type 2 diabetics, and children, depending on the specific formula/product.

**TOXICITY**

None

**SPECIAL PROTECTION INFORMATION**

Respiratory protection: NIOSH approved dust respirator  
Ventilation: Local exhaust  
Eye protection: Chemical safety goggles

**RISK IDENTIFICATION**

None

**HAZARDOUS INGREDIENTS**

None. Not regulated under the OSHA Hazard Communications Standard.

**PHYSICAL DATA & PROPERTIES: RISK IDENTIFICATION**

*State:* Crystalline powder (granular)  
*Color:* Off-white  
*Odor:* Mild/natural fruit  
*Taste:* Sweet/mild  
*Melting Point:* 103 – 105 C (217-221 F) Decomposes  
*Solubility in water:* Excellent dispersibility



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**REACTIVITY DATA**

*Stability:* Stable  
*Materials to Avoid:* None known  
*Conditions to Avoid:* Dusting of material

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**MICROBIOLOGY: TYPICAL**

*Yeast Count:* < 20/g  
*Mold Count:* < 20/g  
*Total Aerobic Plate Count:* < 1,000/g  
*Yeast & Mold:* < 20/g  
*Salmonella:* Absence  
*E.Coli:* Absence  
*Total Coliform Count:* Absence

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**HEALTH HAZARD**

*Effects of overexposure:* None Known  
*Primary route of entry:* Inhalation  
*Exposure limits:* None Known  
*Skin contact:* Non-Irritating  
*Eye contact:* Non-Irritating  
*Mutagenicity:* Not Considered Mutagenic  
*Target organs:* None Known  
*Exposure limits:* Nuisance Dust

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**FIRST AID MEASURES**

*Ingestion:* No measures recommended  
*Inhalation:* No measures recommended  
*Skin contact:* No measures recommended, if necessary, rinse with water  
*Eye contact:* Flush thoroughly with water (water rinse)

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**EXTINGUISHING MEDIA**

Water

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**SPECIAL FIRE FIGHTING PROCEDURES**

In case of fire, wear respiratory equipment

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**SPECIFIC DANGERS**

Avoid placing near flame

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**NPA DUST EXPLOSION RATING**

ST\*1 – this rating applies to other common food ingredients such as sucrose



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**SPECIAL PROTECTION**

*Respiratory protection:* NIOSH approved dust respirator  
*Ventilation:* Local exhaust  
*Eye protection:* Chemical safety goggles

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**SPILL OR LEAK PROCEDURES**

Steps to be taken if material is released or spilled: Use acceptable industrial hygiene practices as with fructose or sucrose.

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**WASTE DISPOSAL**

This material is not considered a hazardous material under RCRA and may be disposed of in landfill or washed down the sink.

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**SAFE HANDLING AND USE**

Same as sucrose. Normal housekeeping measures, water cleanup. No protective measures required during maintenance. Extinguishing media is H<sub>2</sub>O or CO<sub>2</sub>. GMP ventilation should be adequate. When bottling, packaging, or transferring, a closed system is recommended due to hygroscopic nature. Non-carcinogenic, non-toxic.

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**SPECIAL PRECAUTION**

Keep containers tightly closed and sealed when not in use to prevent caking and the potential for contamination of the product. Avoid breathing dust. Use good industrial hygiene practices. Store product in a clean, dry, temperature-controlled, humidity-controlled environment per specifications described herein.

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**ENVIRONMENTAL IMPACT**

This material is Bio-Friendly and Green. Fully biodegradable and not harmful to any living plant or carbon-based life form, including fish, mammals, birds, etc.

END OF DOCUMENT