Safety Data Sheet

1. Product and Company Identification

Product Name: **Nature's Brix**
Material Uses: Microbe food

(M)SDS#: Nature's Brix -20180616
Validation Date: June-16-2018
Supplier/Manufacturer: GreenGro, LLC
PO Box 976
Windsor, California (CA) 95492, U.S.A.
Phone number: (866) 884-6803 (Mon – Fri; 8:30am to 4:30pm PST)
E-mail: admin@thegreengro.com
Website: www.thegreengro.com

In case of emergency: Contact your local emergency response services

2. Hazards Identification

CLASSIFICATIONS ARE ACCORDANCE TO THE GHS CLASSIFICATION REQUIREMENTS UNDER 29 CFR 1910.1200

GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

HAZARD SYMBOLS:	
SIGNAL WORDS:	Warning
HAZARD STATEMENTS:	
OTHER HAZARDS:	May form combustible dust concentrations in air

PRECAUTIONARY STATEMENTS:

PREVENTION	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
RESPONSE:	None needed according to classification criteria
STORAGE:	None needed according to classification criteria
DISPOSAL:	P501 Dispose of contents and containers in accordance with local, regional and international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

See toxicological information (section 11)
General Information: Read entire SDS for a more thorough evaluation of the hazards

3. Composition / Information on Ingredients

Name	CAS Number	%
D-Glucose	50-99-7	15 - 40

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.
Component Related Regulatory Information-This product may be regulated, have exposure limits or other information as the following: Particulates not otherwise classified (PNOC)

4. First Aid Measures

Eye Contact:	Flush eyes with plenty of water. Remove contact lenses, if present and easy to do. If symptoms develop and/or persist seek medical attention.
Skin Contact:	Wash affected areas with soap and water. Remove contaminate clothing & launder before reuses. If symptoms develop and/or persist seek medical attention.
Inhalation:	Move exposed person to fresh air. If symptoms develop and/or persist seek medical attention. If not breathing, give artificial respiration or oxygen. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen. Loosen tight clothing such as a collar, tie, belt, or waistband.
Ingestion:	Rinse mouth with water. Do not induce vomiting until direct to do so by medical personnel. If symptoms develop and/or persist seek medical attention.
Note to physician:	No specific treatment. Treat symptomatically. Call poison control center if large quantities were ingested.

5. Fire-Fighting Measures

Flash point:	No data available.
Hazardous Thermal Decomposition Products:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides, magnesium oxides, oxides of nitrogen, smoke, irritating combustion products. Under fire conditions this product may emit toxic and/or irritating fumes, smoke, and gases.
Extinguishing Media:	Regular dry chemical, carbon dioxide, water spray. For large fires use regular foam or flood fire with fine water spray.
Unsuitable Extinguishing Media:	High-pressure water streams.
Special Exposure Hazards:	Promptly isolate the scene by removing all persons from the vicinity of the fire. No actions shall be taken involving any personal risk or without suitable training. Combustible dust. High concentrations of product dust from this product may burn explosively if ignited by static charges or other ignition sources. The conditions under with this may occur are not readily predictable. Avoid flames, sparks, and other sources of ignition. Ground any equipment in handling.
Special Protective equipment for fire-fighters:	No special requirements. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

Personal Precautions:	No actions shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering area. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist and provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental Precautions:	Avoid dispersal of spilled material and runoff that leads to contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution.
Methods of Clean Up:	Stop leak if without risk. Move containers from spill area. Avoid generating dust. Avoid heat, flames, sparks, and other sources of ignition. Eliminate all sources if safe to do so. All equipment used when handling the product must be grounded. Approach spill from up wind if possible. Prevent spill from entering sewers, rivers and other water courses, basements, or confined areas. Wash into effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material (e.g. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations. Use clean non-sparking tools to collect the material. Dispose of product in accordance with local and national regulations. Contaminated absorbent material may pose the same hazard as the spilled product. If respirable dusts are generated, respiratory protection may be needed.

7. Handling and Storage

Handling:	Wear appropriate personal protective equipment (see Section 8) when handling. Eating, drinking, and smoking should be prohibited in areas where chemicals are handled, stored, or processed. Workers should wash hands and face before eating, drinking, and smoking. Keep all containers tightly closed when not in use. Empty containers retain product residue and should be disposed of properly. Do not reuse empty containers for other purposes or to hold other materials. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Prevent buildup of mists or vapors in the work atmosphere. Material can ferment if excessive moisture contamination is allowed. Fermentation can yield carbon dioxide with possible traces of ethanol or volatile fatty acids (e.g. acetic, propionic, lactic, or butyric) and if exposed to spark or flame may results in an explosion. Fermentation may also occur in dilute surface layers formed by condensation from the headspace above liquid. These conditions should be avoided. If maintenance of a storage tank requires entry of personnel, confined space precautions should be complied with. Insufficient oxygen may be present in vessels containing the product due to the generation of gases during fermentation.
Storage:	Store in accordance with local regulations. Store in a cool, dry, well-ventilated area, out of direct sunlight, away from heat and ignition sources. Keep containers closed when not in use, securely sealed and protect against physical damage. Inspect regularly for deficiencies such as damage or leaks. Store locked up. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Avoid contact with temperatures above 90°F (32°C). Avoid generating dust.

8. Exposure Controls / Personal Protection

Component	Exposure Limits
D-Glucose	ACGIH – TWA: 10 mg/m^3 (inhalable particles, recommended); 3 mg/m^3 (respirable particles, recommended, related to PNOC) OSHA (US): 15 mg/m^3 (respirable fraction, related to PNOC)

Recommended Monitoring Procedures:	If this product contains ingredients with exposure limits, personal, workplace, atmospheric, or biological monitoring may be required to determine the effectiveness of the ventilation system or other control measures and/or to determine whether it is necessary to use respiratory protective equipment. Consider European Standard EN 689 or similar industry or governmental guidelines for appropriate methods for the assessment of exposure by inhalation to chemical agents and/or hazardous substances.
Engineering measures:	No special ventilation requirements are necessary for this product. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains

ingredients with exposure limits, use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure below the recommended or statutory limits

Hygiene measures: Wash hands, forearms, and face thoroughly after handling any chemical products, and before eating, smoking, and using the lavatory and at the end of the work period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection

Respiratory: A respiratory protection program in compliance with 29CFR1910.134, or other applicable regulatory standard must be followed whenever exposure limits may be exceeded. If engineering controls are not feasible, or if inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Wear neoprene, nitrile rubber or other suitable impervious gloves; consider European Standard EN374 or similar industry or governmental guidelines. Consider the parameters specified by the glove manufacture and check gloves during use to ensure they are retaining their protective properties. Gloves selected must have a breakthrough rating appropriate for the work shift. If a risk assessment indicates that it is necessary, gloves should always be worn when handling chemical products.

Eyes: When a risk assessment indicates, safety eyewear complying with an approved standard, such as OSHA Standard 29CFR1910.133 or European Standard EN166, should be used to avoid exposure to liquid splashes, mists, or dusts. If contact is possible, at a minimum use chemical splash googles. If significant splash hazard may occur, consider using a full-face shield.

Skin: Personal Protective equipment for the body should be selected based on the task being performed and the risks involved. Typical protective equipment includes non-absorbent lab coats, disposable protective sleeves, coats, or whole-body suits. Consider CFR1910.132 and CFR1910.136 for OSHA approved standards on protective clothing and footwear. Consider seeing a safety specialist to determine the appropriate level of protection for your task.

Environmental Exposure Controls: Emissions from ventilation or work processes should be checked to ensure they comply with the requirements of environmental regulations. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and Chemical Properties

Appearance:	Tan or light beige solid	Odor	Strong caramel odor
Boiling Point:	Not determined	Freezing Point:	Not determined
Flash Point:	Not determined	pH:	Not determined
Auto-ignition Temperature:	Not determined	Flammable Limits:	Not determined
Vapor Pressure:	Not determined	Water Solubility:	Not determined
Specific Gravity:	Not determined	Vapor Density:	Not determined
Evaporation Rate:	Not determined	VOC:	Not determined

10. Stability and Reactivity

Chemical Stability: This product is stable, under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous Polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to Avoid: Avoid generating dust. Heat, open flames, sparks, direct sunlight, and other sources of ignition. Avoid contact with oxidizing agents. Elevated storage temperature.

Hazardous Decomposition: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides, magnesium oxides, oxides of nitrogen, smoke, irritating combustion products. Under fire conditions this product may emit toxic and/or irritating fumes, smoke, and gases.

11. Toxicological Information

Acute Toxicity

Product/Ingredient Name	Test	Endpoint	Species	Result
D-Glucose	-	-	Rat	25,800 mg/kg

Irritation / Corrosion

Product/Ingredient Name	Test	Species	Result
No data available			

Sensitizer

Product/Ingredient Name	Test	Species	Result
No data available			

Mutagenicity

Product/Ingredient Name	Test	Result
No data available		

Conclusion/ Summary: No data available

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH,NTP or OSHA or :

Reproductive Toxicity

Product/Ingredient Name	Test	Species	Maternal Toxicity	Fertility	Developmental Effects
No data available					

Teratogenicity

Product/Ingredient Name	Test	Species	Results
No data available			

Potential Acute Health Effects

Inhalation: Inhalation of dust may irritate upper respiratory tract.

Ingestion: May irritate gastric tract causing nausea and vomiting.

Skin Contact: May be irritating to skin. Repeated skin exposure to this product may result in skin irritation and if persistent, dermatitis which may become infected.

Eye Contact: May be irritating to eyes. Overexposure to eyes may also cause immediate discomfort, pain, and mild but transient corneal injury.

Potential Chronic Health Effects

Product/Ingredient Name	Test	Endpoint	Species	Results
No Data Available				

General: Once sensitized, an allergic reaction may occur when subsequently exposed to very low levels.

Target Organs: No known significant effects or critical hazards

Carcinogenicity: No known significant effects or critical hazards

Mutagenicity: No known significant effects or critical hazards

Teratogenicity: No known significant effects or critical hazards

Developmental Effects: No known significant effects or critical hazards

Fertility Effects: No known significant effects or critical hazards

12. Ecological Information

Environmental Effects: This product is not classified as environmentally hazardous; however, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Aquatic Ecotoxicity

Product/Ingredient Name	Test	Endpoint	Exposure	Species	Result
No data available					

Persistence and Degradability

Product/Ingredient Name	Test	Period	Result
No data available			

Product/Ingredient Name	Aquatic half-life	Photolysis	Biodegradability
No data available			

Bioaccumulative potential

Product/Ingredient Name	Log P_{ow}	BCF	Potential
No data available			

Other adverse effects: No known significant effects or critical hazards

Other information: BOD5: Not determined COD: Not Determined TOC: Not determined

13. Disposal Consideration

Waste Disposal Method: Disposal of this products, solutions, and by-products should always comply with the requirements of environmental and waste disposal legislation and any regional or local authority requirements. Dispose of surplus, non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed on untreated to the sewer system unless this is complaint with all applicable laws and regulations. Incineration by an approved and licensed contractor is the most common disposal method. Packaging materials that and absorbents containing the product can typically be landfilled or incinerated. Contact local authorities to determine the proper means of disposal in your area.

14. Transport Information

Not regulated for transportation purposes under DOT, IATA, or IMDG standards

15. REGULATORY INFORMATION

US Federal Regulations:

Occupational Safety and Health Act (OSHA): This product is not considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SARA Title III: Section 304 - CERCLA: This product does not contain chemicals regulated under Section 304 as extremely hazardous substance(s) for emergency release notification ("CERCLA" List):
SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): Delayed (chronic) health hazard
SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain a toxic chemical for routine annual Toxic Chemical Release Reporting under section 313 (40 CFR 372).
TSCA Section 8(b) - Inventory Status: All chemical(s) comprising this product are listed or exempt on the TSCA inventory.

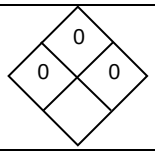
State Regulations:

California Proposition 65: This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

16. OTHER INFORMATION

Hazardous Material Information System (HMIS) - USA	
Health	0
Flammability	0
Physical Hazards	0
Personal Protection	C*

National Fire Protection Association (USA):



*suggested minimum personal protection equipment. End user must determine appropriateness of these suggestions for their applications and usage conditions.
Approximate HMIS & NFPA Risk Rating Legend: 0 (low or none); 1 (slight); 2 (Moderate); 3 (Serious); 4 (Severe)

MSDS No: Nature's Brix -20180616 **Reason Issued:** update
Prepared By: EHS Department

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