



COMMODITIES

January 6th 2016

Product: Brown Rice Syrup DE 60

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PRODUCT SPECIFICATION DATA

Product Name: Brown Rice Syrup DE 60

Product Description: Brown Rice Syrup DE 60 is an amber to golden, colored syrup having a clean, sweet flavor. The syrup is extracted from prime quality rice grains which have undergone a natural enzymatic treatment. The extract obtained is filtered and concentrated into a syrup.

Label Declarations: Brown Rice Syrup DE 60

Kosher Certification: Kosher certified

Country of Origin: India

I. Physical/Chemical Properties

Characteristic	Lower Limit	Target	Upper limit	Unit of measure	Method
Color	Light Amber	Golden Amber	Amber	Visual	Visual against standard
BRIX°	79	80	81	% sol solids	Refractometer at 20°C
Water activity	0.64	0.68	0.72	Aw	20°C, Aw meter
pH (10% solution)	5.2	5.6	6.0	pH	pH at 20°C in 10% sol
Dextrose equivalent	56	60	64	DE	HPLC
Viscosity	13	14	16	Cm/30 sec	Bostwick, 70°F 78 Brix
DP1 (Glucose)	22	-	30	%	HPLC
DP2 (Maltose)	24	-	34	%	HPLC

Disclaimer Statement:

The data supplied in this certificate of analysis, and the physical and chemical properties contained herein are based on manufacturer testing and certifications. AG Commodities provides this information without guarantee or representation as to their result. It is the responsibility of the product user to evaluate and verify the data prior to use. AG Commodities does not certify any quality outcomes or warrant that the product conforms to any specific requirement



Other Characteristics

Ash: Less than 1%
Protein: 1.0 – 2.0%
Fat: Less than 1%
Flavor: Clean and sweet with a hint of light molasses/honey flavor notes.

II. Microbiological Specifications

Test	# samples /lot*	Upper limit	Unit of measure	Test method	Test frequency
Coliforms	3	<10	MPN/g	FDA BAM, 8 th ed.	All lots*
E. Coli	3	<10	MPN/g	FDA BAM 8 th ed.	All lots*
Osmophillic Mold	3	< 100	Cfu/g	AOAC	All lots*
Osmophillic yeast	3	< 200	Cfu/g	AOAC	All lots*

* A lot is defined as no greater than 42,000 lbs or 20,000 kg

Brown Rice Syrup DE 60 Product is packed in accordance with GMPs which meet all local, state and federal laws and regulations relating to goods, cosmetics, pesticides, ingredients, additives, weights and measures, labeling, transportation and coding. In addition, a certificate of analysis (COA) by lot accompanies each shipment with or prior to delivery.

III. Ingredient/Allergen Statement

Ingredient:	Whole Grain Brown Rice
Allergen Statement:	See page 11
Known allergens at manufacturing facility:	None



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IV. Nutritional Information

Calories (kCal)	318 kCal	Potassium	30 mg
Calories from fat	4 kCal	Protein	<1.0 g
Total fat	<1 g	Total carbohydrates	77 g
Saturated fat	0.5 g	Dietary fiber	0.4 g
Trans fat	0.0 g	Sugars	56 g
Cholesterol	0 mg	Calcium	19 mg
Sodium	80 mg	Iron	0.6 mg

(Nutrition facts per 100 grams)

V. Packaging - Brown Rice Syrup DE 60

Drums: New HDPE drums 660 lbs (300kg) with seal
Totes: Spacekraft 3,100lb totes (heating blanket optional)

VI. Storage/shelf life/Shipping requirements

Shipping Conditions: Totes/drums are filled and shipped under ambient room temperature conditions
Storage: Store at ambient temperature, in a dry location
Shelf Life: 12 months from date of manufacture



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CERTIFICATE OF ANALYSIS (R & D and Quality Control Section)

Issued to: AG COMMODITIES, INC
 2913 El Camino Real, Suite 620, Tustin, CA 92762, USA

Date: MM/DD/YYYY **Date of Expiry:** MM/DD/YYYY

Batch No: 220 **Manufacturing Date:** MM/DD/YYYY

Product: BROWN RICE SYRUP 60 DE

Physical & Chemical Properties

	Target Specifications	Actual Test Results	Test Method
Color	Golden Amber	Golden Amber	Visual against Standard
Dextrose equivalent %	56 – 64	60	HPLC
Brix %	79 – 81	80	Refractometer at 20°C
Ph	5.2 – 6.0	5.6	pH at 20°C in 10% sol
Ash %	Less than 1 %	0.08	AOAC

MICROBIOLOGY RESULTS

	Target Specifications	Actual Test Results	Test Method
Yeast	< 100 CFU/g	< 10 CFU/g	AOAC
Mold	< 100 CFU/g	< 10 CFU/g	AOAC
E.Coli	< 10 CFU/g	< 10 CFU/g	FDA BAM 8 th ed.
S.Aureus	< 10 CFU/g	< 10 CFU/g	AOAC
Salmonella	Negative / 25g	Absent	USFDA (BAM)8 TH EDN.:2001-CHAPTER 5

HPLC PROFILE

	Specifications	Test Results	Method
Glucose (DP1)	22 – 30	25.10 %	HPLC
Maltose (DP2)	24 – 34	28.50 %	HPLC
Total Sugars	46 – 64	53.60 %	HPLC

Quality Control

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To Whom It May Concern

This to certify that the Brown Rice Syrup DE 60 produced in India for AG Commodities, Inc., 2913 El Camino Real, Suite 620, Tustin, CA 92782 \has been produced using whole grain rice which has no GMO Component

This being relevant, it needs to be stated here that any and all rice, regardless of strain or type, cultivated and produced in India is non GMO and is certified as such by the relevant agricultural agencies in India.

Yours Sincerely,

Quality Control

Disclaimer Statement:

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Gluten Free Certificate

This to certify that the Brown Rice Syrup DE 60 produced in India for AG Commodities, Inc., 2913 El Camino Real, Suite 620, Tustin CA 92782 is Gluten Free.

The only raw material used in the manufacture of the syrup being whole grain brown rice and natural enzymes, neither of which contains any gluten, the final product is free of any Gluten.

Yours Sincerely,

Quality Control

Disclaimer Statement:

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COMMODITIES

January 6th 2016

To Whom It May Concern

This to certify that the Brown Rice Syrup DE 60 produced in India for AG Commodities, Inc., 2913 El Camino Real, Suite 620, Tustin CA 92782 has been produced using whole grain brown rice which is of 100% Indian origin.

There is no foreign component in the raw material used.

Yours Sincerely,

Quality Control

Disclaimer Statement:

The data supplied in this certificate of analysis, and the physical and chemical properties contained herein are based on manufacturer testing and certifications. AG Commodities provides this information without guarantee or representation as to their result. It is the responsibility of the product user to evaluate and verify the data prior to use. AG Commodities does not certify any quality outcomes or warrant that the product conforms to any specific requirement.



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To Whom It May Concern

This to certify that the Brown Rice Syrup DE 60 produced in India for AG Commodities, Inc., 2913 El Camino Real, Suite 620 Tustin CA 92782 is not sterilized using irradiation or fumigation. (ETO)

Yours Sincerely,

Disclaimer Statement:

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To Whom It May Concern

This to certify that the Brown Rice Syrup DE 60 produced in India for AG Commodities, Inc., 2913 El Camino Real, Suite 620, Tustin, CA 92782 not contain, nor manufactured with, any animal products or any materials of animal origin and is vegan.

Yours Sincerely,

Quality Control

Disclaimer Statement:

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SAFETY DATA SHEET

1. Identification of the Substance

Product identifier
Product name : Brown Rice Syrup DE 60

Other means of identification : No information available
Synonyms

Recommended use of the chemical and restrictions on use

Recommended use : compound
It is raw material intended for manufacturing use
Not intended for personal use at this concentration

Details of the Supplier of the Safety Data Sheet

AG Commodities, Inc
Street Address: 2913 El Camino Real, Suite 620
City: Tustin, CA
Postal Code: 92782
Contact No: 714-782-7131

Emergency Telephone Number : 714-782-7131
Company Phone Number : 714-782-7131

2. Hazard identification

Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

The product contains no substances which at their given concentration, are considered to be hazardous to health

Hazards Not Otherwise Classified (HNOC)

None known

Other Information

Other Hazards : None known



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3. Composition/information on Ingredients

Hazardous components Not applicable
It is withheld in accordance with the provisions of 29 CFR1910.1200.

4. First aid measures

FIRST AID MEASURES

General advice No
Inhalation Supply fresh air; consult doctor in case of complaints
Skin Contact Wash off with plenty of water. If skin irritation continues, consult a doctor.
Eye contact Rinse opened eye for several minutes under running water.
Ingestion Rinse out mouth. If symptoms persist consult doctor.
Self-protection of the first aider Use personal protection recommended in Section 8.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms No known symptoms to date.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Water, CO2, foam, powder

Large Fire Water with full jet

Unsuitable extinguishing media Full water jet.

Specific hazards

No further relevant information available

Protective equipment and precautions for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Use water spray jet to protect personnel and to cool containers. Move undamaged containers from immediate hazard area if it can be done safely.

Collect contaminated fire extinguishing water separately..

6. Accidental release measures

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Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid formation of dust. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Remove all sources of ignition

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions : No special measures required

Methods and material for containment and cleaning up

Methods for cleaning up Pick up mechanically. Clean up affected area. Dispose of the material collected according to regulations.

7. Handling and Storage

Precautions for Safe Handling

Advice on safe handling No special precautions are necessary if used

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed. Store in a dry place

Remove all sources of ignition. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

8. Exposure Controls/Personal Protection

Control Parameters

Exposure guidelines The usual precautionary measures are to be adhered to when handling products.

Appropriate Engineering Controls

Engineering Controls No available data

Individual protection measures, such as personal protective equipment

Eye/face protection Eye glasses with side protection.

Hand Protection The glove material has to be impermeable and resistant to the product/ the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Skin and body protection Wear appropriate personal protective clothing to prevent skin contact.

Respiratory protection Required when dusts are generated. If exposure limits are exceeded or irritation is experienced, respiratory protection mask should be worn.

General Hygiene Considerations The usual precautionary measures are to be adhered to when handling chemicals
Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and after work. Do not eat, drink or smoke when



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FEMA
Statement

using this product.
Not Applicable

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Golden brown
Color	Light brown
Odor	Odor less
Odor threshold	No data available

<u>Property</u>	<u>VALUES</u>	<u>Remarks • Method</u>
pH	5.2-6.0	
Melting point / freezing point	240°C/No data available	
Boiling point / boiling range	No data available	
Flash Point	No data available	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air Upper	No data available	
Flammability Limit Lower	No data available	
Flammability Limit	No data available	
Vapor pressure	No data available	
Vapor Density	No data available	
Relative Density	No data available	
Relative Density	No data available	
Water Solubility	Soluble in water	
Solubility in Other Solvents	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive Properties	No data available	



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Oxidizing Properties No data available

Other Information No data available

Refractive Index No data available

10. Stability and Reactivity

Reactivity

None under normal use conditions.

Chemical Stability

No decomposition if used according to specifications. Stable under normal conditions. Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

No further relevant information available .

Incompatible Materials

Strong oxidizing agents. Strong acids

Hazardous Decomposition Products

In the event of fire: See chapter 5

11. Toxicological Information

Information on Likely Routes of Exposure

Product Information Quantitative data on the toxicological effect of this product are not available.

Inhalation

No irritant effect.

Eye contact

No irritant effect.

Skin Contact

No irritant effect.

Ingestion

No irritant effect.

Information on Toxicological Effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic effects No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA

Reproductive Toxicity No information available.

STOT - Single No information available.



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Exposure
STOT -
Repeated
Exposure
Aspiration
Hazard
Numerical Measures of Toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)

ATEmix (dermal)

No information available

12. Ecological Information

Ecotoxicity No information available.

Persistence and No information available.

Degradability

Bioaccumulation No information available

Other Adverse No information available
Effects

13. Disposal Considerations

Waste

Treatment

Methods

Waste disposal Chemicals must be disposed of in compliance with the respective national regulations.
method

Contaminated Do not reuse container.

Packaging

14. Transport Information

DOT Non-bulk

Packaging

UN/IDno Not regulated

Proper Not regulated

Shipping Name

Hazard class Not regulated

Packing group Not regulated

Marine Not regulated

Pollutant

Air transport

UN/IDno Not regulated

Proper Not regulated

Shipping Name

Hazard class Not regulated

Packing group Not regulated

IMDG/IMO



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UN/IDno	Not regulated
Proper Shipping Name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Marine Pollutant	Not regulated

15. Regulatory Information

Federal Regulations

SARA 313

A Chemical Safety Assessment has not been carried out.

SARA 311/312 Hazardous Categorization

Acute health hazard	No
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

End of Safety Data Sheet

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Material Description: Brown Rice Syrup DE 60

Allergen	Contained in Product	Present in Facility	Used on same Production Line
Peanuts or Peanut Products (Butter, Oil, Flour)	No	No	No
Tree Nuts (Almonds, Pecans, Walnuts, Brazil Nut, Cashew etc.)	No	No	No
Eggs or Egg Products (Whites, Yolks, Meringue etc.)	No	No	No
Fish (Cod, Salmon, Trout etc.)	No	No	No
Shellfish (Crustaceans, Mollusks)	No	No	No
Cereals containing gluten	No	No	No
Celery (Root, Leaves, Stalk not seed)	No	No	No
Dairy or Dairy Derivatives	No	No	No
Seeds or Seed Products (Cotton, Poppy, Sesame, Sunflower)	No	No	No
Wheat or Wheat Derivatives	No	No	No
Corn or Corn Derivatives	No	No	No
Soybean or Soybean Products (Soy Protein, Tofu, Lecithin, Unrefined Oil etc.)	No	No	No
Sulfites	No	No	No
Hydrolyzed Vegetable or Plant Protein	No	No	No
Colorings	No	No	No
Preservatives	No	No	No
MSG	No	No	No
Yeast	No	No	No