	<h1>Product Specification</h1>	Code: RC-005
		Version: 5
		Date: 03.12.15

FREEWORLD TRADING LIMITED


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PRODUCT DESCRIPTION:	Walnuts, Broken (pieces), Indian
FWT CODE:	0560
DATE ISSUED:	28.01.2019
REVISION NUMBER:	4

SUPPLIER NAME:	Freeworld Trading Limited
SUPPLIER ADDRESS:	21 Annandale Street Edinburgh EH7 4AW
TELEPHONE NUMBER:	0131 557 5600
FACSIMILE NUMBER:	0131 557 5665
EMAIL ADDRESS:	quality_control@freeworld-trading.co.uk sales@freeworld-trading.co.uk logistics@freeworld-trading.co.uk

CONTACT TECHNICAL:	Karen Greenhorn
POSITION HELD:	Quality Control
EMAIL ADDRESS	karen@freeworld-trading.co.uk

Commodity Buyer	Michael Stevens
Email Address	michael@freeworld-trading.co.uk

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1.00 PRODUCT DESCRIPTION
Please provide a brief description of the PRODUCT including, name of product and pack size.
Light & Light Amber Indian walnuts broken (pieces) packed in 2x5kg vacuum packs.

2.00 INGREDIENT BREAKDOWN					
Ingredient	% at Recipe bowl stage	% in Final Product	% Compound Ingredient Breakdown	Variety/Grade	Country Of Origin
Walnuts		100		Broken (pieces)/Nibbed	Indian

3.00 STABILITY CONTROL FOR RAW INGREDIENTS									
Ingredient	'State' eg. Liquid / powder / paste	Max life - days	Storage temp. °C	Washing process. Detail chemical used, concentration and contact time	Aw	pH	% moisture	Heat process time & CORE temperature	Status of manufacturing areas e.g GMP, High Care, High Risk
Details for each individual component of raw material									
Walnuts	Solid	365	8C	N/A	N/A	N/A	5%	N/A	GMP

4.00 PRESERVATIVES AND PROCESSING AIDS		
E. Number	Name	Maximum Limit
	n/a	
If processing aid state which process it aids and how.		

5.00 SEASONAL VARIATION
See paragraph 11.00 Chemical Analysis

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6.00 GENETIC MODIFICATION

GENETICALLY MODIFIED ORGANISMS	YES	NO	IF YES WHICH INGREDIENT
1. Does the product or any of its ingredients contain any genetically modified material – whether viable or not?		√	
2. Is the product or any of its ingredients produced from, but not containing, any genetically modified material – whether viable?		√	
3. Has the product or any of its ingredients been significantly changed as a consequence of the use of genetic modification?		√	
4. Have genetically modified organisms been used as processing aids or additives to produce processing aids or additives used in conjunction with the production of the food or any of its ingredients?		√	

7.00 ORGANOLEPTIC PROPERTIES

Provide a full description of the organoleptic properties of the PRODUCT.	
Appearance:	<p>Light Brokens: Light creamy or Golden Kernels. Note: Colour gets a little dull or dim for shipments during shipments April-August because of the following factors:</p> <ul style="list-style-type: none"> a) age of kernels is over 7 months b) after march, summer sets in India with the temperature ranging between 35C-45C. <p>Light Amber Brokens: Lightly Amber or Tanned kernels</p>
Flavour and Aroma:	<p>Fresh flavour, typical of walnut kernels. Fresh, non-rancid odour typical of Indian walnut kernels. Free from any irrelevant taste or odours</p>
Texture:	<p>Crunchy, typical of fully formed walnut kernels, non-oily</p>

Organoleptic properties are obviously dependent on the crop and harvesting conditions of the current year.



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8.00 NUTRITIONAL INFORMATION

Parameter	Value (per 100grams)	Source
Energy Kj / kcal	2878/688	McCance & Widdowson
Fats	68.5	
Of which:	-	
-saturated	5.6	
-monounsaturated	12.4	
-polyunsaturated	47.5	
Carbohydrates	3.3	
Of which:	-	
-sugars	2.6	
-starch	0.7	
Fibre	3.5	
Protein	14.7	
Minerals		
Salt (g)	0.01	
Calcium (mg)	94	
Iron (mg)	2.9	
Magnesium (mg)	3.4	
Phosphorus (mg)	380	
Potassium (mg)	450	

9.00 PRODUCT SUITABILITY

Dietary Requirement	Yes/No	Comments
Coeliac	Yes	There is no gluten within the product recipe; there is no gluten on the production line. However we can not guarantee that the raw materials entering the factory are gluten free. We have taken every reasonable precaution and proceeded with due diligence, however we cannot guarantee cross contamination on vehicles/containers etc.
Vegetarians	Yes	There are no animal products within the product recipe; there are no animal products on the production line. We have taken every reasonable precaution and proceeded with due diligence, however we cannot guarantee cross contamination on vehicles/containers etc.
Vegans	Yes	There are no animal products within the product recipe; there are no animal products on the production line. We have taken every reasonable precaution and proceeded with due diligence, however we cannot guarantee cross contamination on vehicles/containers etc.
Lactose Intolerant	Yes	There are no dairy products within the product recipe; there are no dairy products on the production line. We have taken every reasonable precaution and proceeded with due diligence, however we cannot guarantee cross contamination on vehicles/containers etc.
Kosher	Yes	Certified Yes
Halal	Yes	Certified Yes

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Approved by: Marcela Graziano

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10.00 ALLERGEN DATA

Product	In the product Y/N	Within the factory Y/N	On the same production line Y/N	Stored in Same Warehouse Y/N
Peanuts and peanut derivatives	No	No	No	If stored, it is in segregated area
Nut and nut derivatives (almond, hazelnut, walnut, cashew, pecan nut, Brazil nut, pistachio nuts, macadamia nut and Queensland nut)	Walnuts	Walnuts	Walnuts	In segregated area
Sesame seeds / sesame seed derivatives	No	No	No	In segregated area
Mustard / mustard products	No	No	No	No
Milk / milk derivatives	No	No	No	No
Egg / egg derivatives / albumen	No	No	No	No
Gluten (i.e wheat, rye, barley, oats, spelt, kamut, or their hybrid strains)	No	No	No	If stored, it is in segregated area
Soya / Soya derivatives	No	No	No	If stored, it is in segregated area
Lupin / Lupin derivatives	No	No	No	No
Fish/Fish derivatives	No	No	No	No
Crustaceans	No	No	No	No
Molluscs	No	No	No	No
Sulphur Dioxide and sulphites	No	No	No	In segregated area
Celery	No	No	No	No

Allergens stored in the warehouse can be subject to change from the above list. However, the warehouses take all necessary precautions and store all allergens in segregated areas. We have taken every reasonable precaution and proceeded with due diligence, however, we cannot control the risk of cross contamination in distribution, since we have limited control over the third party service involved. Therefore, we cannot guarantee absence of any particular allergen. Should you wish to make any allergen statements against your products please contact Freeworld Trading before hand.



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11.00 Chemical Analysis


Parameter	Specification Limits			
	Norms shipment October-March	Tolerance shipment October- march	Norms shipments April-august	Tolerance shipment April-August
Moisture	<4.5%	5%	<4.5%	5%
Free Fatty Acids Light & Light Amber brokens	<0.7%	<1%	<1.5%	<2%
Peroxide value (pv) meq/kg Light & Light Amber Light broken	<2	<3	<3	4
Aflatoxin	Total 4ppb, B1 2ppb, tested every batch			
Pesticides & Heavy Metals	As per EU/UK legislation tested once per crop			

12.00 MICROBIOLOGY

Microbes	Typical Levels
Total Viable Count	<50,000 cfu/g
Coliforms	<1,000 cfu/g
Escherichia Coli	<10 cfu/g
Yeasts	<5,000 cfu/g
Moulds	<10, 000 cfu/g
Salmonella	Absent in 25gms

13.00 Physical Analysis

Physical attributes	Broken Norms	Broken Tolerance
Purity	100%	99.99%
Shell Pieces per 100kg	5	10
Septa (shells and centre walls attached to kernels-membrane) per 100kg	5	40
Stones per 1000kg	Absent	1 per 1000kg
Glass/metal/wood	Absent	Absent
Darker kernels by weight	4%	7%
Defects	Broken Norms	Broken Tolerance
Walnut kernels with black spots (sun burnt)	<0.10%	0.25%
Walnut kernels with moth webs/eaten by insects	Absent	<0.10%
Shrivel fragments	<0.10%	0.25%
Serious defects/visible moulds	<0.10%	0.25%
Infestation	Absent	Absent
Total of above defective walnut kernels	<0.25%	<0.50%
Declaration: Although due care and attention has been taken during the processing of this natural product. The product may contain traces of pits/stalks/shell.		


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14.00 Size			
Light & Light Amber Broken	7-15mm	Broken kernels that shall not pass through sieve of 7 mm. Average size 7 mm – 15 mm. Laser sorted, graded and hand sorted and graded on 7 mm round sieve prior to packing.	Pieces below 7 mm: Norm <1% Tolerance <2%
Light & Light Amber Nibbed	<7mm		

15.00 SHELF-LIFE
SHELF-LIFE FROM DATE OF PRODUCTION: 18 months
Please note the product will be safe to use for the duration of the shelf-life after opening, providing they have been stored correctly.

16.00 METAL DETECTION		
Metal detection	Ferrous (mm)	1.5mm
	Non –Ferrous (mm)	2.0mm
	Stainless Steel (mm)	2.5mm

17.00 RECOMMENDED STORAGE CRITERIA		
All our products are designed for ambient storage, however we choose to keep our products between 6-10°C to preserve maximum freshness and prevent infestation.		
COOL STORE	6-10C	RH55-56%
Ambient	Max 20	
AWAY FROM DIRECT SUNLIGHT	Yes	

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18.00 MATERIALS			
Recommended pallet stacking for the product, however this may vary depending on warehouse/haulier			
PALLET			
No of units per layer	5	Maximum	
No of units per pallet	50	Maximum	
No of units per pallet		Minimum	
Method of pallet security	Shrink wrap	Shrink-wrap / Pallet-wrap / Banding	
Type of pallet used	Wooden pallet		
CONTACT PACKAGING MATERIAL			
Material	Vacuum bags	YES	<input checked="" type="checkbox"/> NO
Colour	Silver/white		
Dimensions	Aluminium Metalized Polyester Poly Film Length 650mm x width 335 mm for broken		
Weight	60 grams per vacuum bag containing 5kg broken		
Method of closure	Nitrogen flushed vacuum pack	Tolerance for bags that have lost vacuum : <4%	
OUTER PACKAGING MATERIAL			
Material	Cardboard		
Colour	Brown or White		
Grade	Food		
Weight	560 grams for 10 kg cartons of broken		
Dimensions	Broken 450 mm x 227 mm x 210 mm		
Method of closure	Tape	Tape / EEC Tape / Stitching	

19.00 SOURCE AND POINT OF MANUFACTURE	
State the country of Manufacture	India
Is the Product produced and packaged in the suppliers own premises:-	Yes

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20.00 OBLIGATIONS UPON THE PART OF THE SUPPLIER & TRADING TERMS OF FREEWORLD TRADING.

The supplier must comply with all relevant United Kingdom and European Community Legislation and all relevant legal and food safety criteria. The supplier must agree to comply with Freeworld Trading Standard Conditions of Supply.

The supplier is responsible for informing Freeworld Trading in writing and a minimum of one calendar month in advance of any proposed change of formulation, manufacturing process or packaging materials and changes in the origin places of process of any materials used to produce the product to be supplied to Freeworld Trading. No change is to be made without the prior knowledge and prior written agreement of Freeworld Trading.

Freeworld Trading Limited

- 1) No claims entertained after 7 days from delivery.
- 2) Any overdue amounts are liable to interest charged at 3% over base rate per month.
- 3) Title and goods remain with Freeworld Trading Ltd. until the purchase price is paid in full'
- 4) The risk in the goods shall pass to the buyer at the time of delivery where carriage is made by independent carrier, then at the time of collection by this carrier. or where the goods are sold ex-warehouse at the time the buyer is notified that the goods are released for collection.
- 5) If the goods or any part of thereof supplied under the contract are processed or altered in any way by the buyer or any other agent, the quality of the goods shall be deemed acceptable by the buyer. In addition all customers quality control checks are to be completed on the entire load prior to use in application

FOR AND ON BEHALF OF FREEWORLD TRADING

NAME: (Technical)	Karen Greenhorn
POSITION HELD:	Quality Control
TECHNICAL SIGNATURE	<i>Karen Greenhorn</i>
DATE:	28.01.2019
Name: (Buyer)	Michael Stevens
Signature:	<i>MStevens</i>