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|  | UN RATIONS STANDARD | DATE: 01/08/2016 |
| | BREAD RYE FRESH SLICED | ED No: 02 |
| | CODE: UNSTD-COM 2119 | Page: 1 of 2 |

1. PRODUCT NAME

BREAD RYE FROZEN SLICED

| PRODUCT RISK | | |
|--------------|---------------|-------------|
| LOW | MEDIUM | HIGH |

2. DESCRIPTION



Frozen sliced rye bread is made from dough, made out of rye flour with or without wheat flour, water and salt, with or without other ingredients, which has been fermented or leavened by baker's yeast. It is often denser than the wheat flour bread and darker in colour. It is sliced before packaging.

3. INGREDIENTS

3.1. ESSENTIAL INGREDIENTS

Rye flour with or without wheat flour, salt, sugar, shortening and baker's yeast.

3.2. OTHER PERMITTED INGREDIENTS

Fresh sliced rye bread shall contain ingredients such as, but not limited to, wheat flour, emulsifiers, stabilizers, mould inhibitors, milk or milk products, wheat gluten, edible starches and other additives as permitted (Codex General Standard for Food Additives [GSFA] Database).

4. PROCESSING

Processing

- 4.1. CODEX "CAC/RCP 1-1969, Rev. 4-2003; Code of Practice- General Principles of Food Hygiene including annex on HACCP systems and guidelines for application.
- 4.2. CAC/RCP 8-1976 CODE OF PRACTICE FOR THE PROCESSING AND HANDLING OF QUICK FROZEN FOODS

5. MICROBIOLOGICAL CRITERIA

FOOD SAFETY PARAMETERS

MAXIMUM LIMITS

- The product shall comply with any microbiological criteria established in accordance with Codex Guideline CAC/GL: 21-1997 "Principles for the Establishment and Application of microbiological criteria for food;
- The product shall be free from microorganisms in amounts which may represent a hazard to health and shall be free from any substance originating from microorganisms in amounts which may represent a hazard to health.

6. CHEMICAL CRITERIA

SAFETY PARAMETERS

MAXIMUM LIMITS

N/A

QUALITY PARAMETERS

MAXIMUM LIMITS

| | |
|-----------------------------------|-----------------|
| Protein | 8.0 – 9.0 (m/m) |
| Acid insoluble ash (on dry basis) | 0.2% (m/m) |
| Crude fibre (on dry basis) | 0.3% (m/m) |

7. PHYSICAL CRITERIA

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| PARAMETER | LIMITS |
|-----------------------|--|
| Appearance and colour | Rye bread shall have a uniform, brown crust, evenly baked, without evidence of burning and scorching; shall have a characteristic grain, no foreign colour; and shall not be damaged or crushed. |
| Odour or flavour | Shall have a characteristic rye bread aroma and odour; with no stale, scorched, rancid or “rope” or “mouldy” odour. |
| Texture | The product shall be firm, tender with a uniform dark brown crust. The crumb shall be springy with pores evenly distributed within the thin walls. The grain texture shall be uniform. |
| Storage temperature | Shall be frozen to -18°C and the product temperature shall not exceed this temperature at any time during storage and delivery. |

8. CONTAMINANTS

- 8.1. The Product shall comply with maximum residue limits established by Codex Alimentarius (See: CAC / MRL: 2009 Maximum residue Limits (MRLS) for pesticides).
- 8.2. The product shall comply with the Maximum Levels of the Codex general Standard for Contaminants and Toxins in Foods (Codex Stan: 193-1995).

9. NUTRITIONAL FACTS (Approximate values per 100 g)

| NUTRIENTS | AMOUNT PER 100 g OF PRODUCT |
|---------------|-----------------------------|
| Energy | 260 Kcal |
| Carbohydrates | 48.5g |
| Protein | 8.5g |
| Fat | 3.5 g |

10. PACKAGING

| PARAMETER | LIMITS |
|-------------------------------|---|
| Primary packaging | The product shall be wrapped and packaged, heat sealed food grade polythene bags or equivalent packaging material that maintains the product's organoleptic qualities and sanitary integrity. Able to withstand the rigors of transport and handling. |
| Secondary packaging | Corrugated paper box or equivalent packaging that protects the integrity of the primary package, and withstands the rigors of transport and handling. |
| Primary packaging net weight | Up to 1 Kg (18/24 slices Pack) |
| Warranty at delivery location | 1 Month |

11. LABELLING

- 11.1. UNSTD-GEN-02 “UN Product Labelling”

12. OTHER REQUIREMENTS

- 12.1. UNSTD-GEN-03: “UN Inspection”
12.2. UNSTD-GEN-04: “UN Certification”