Heygates Flour Mills Product Specification



Product Name	Customer Name	Cust Ref
Fine Lady Plain	Frutarom	FRU125

Description of Flour

A smooth free flowing white flour that shall be free from hard lumps or foreign matter. The flour shall be free from any off taints or odours shall have a neutral cereal taste. The flour is suitable for pastry, biscuits, and cakes.

2018 / 2019 Harvest Flour Analysis Method Range Method Target Protein Test % 10.0 8.8 10.6 **HEY 014** Moisture Test % 14.2 **HEY 014** 13.5 15.0 Hagberg (FN) 290 Min 220 **HEY 006** Colour Grade -4.0 **HEY 014** 0.0 *The product analysis data is obtained using historical data and could be subject to change at harvest

Shelf Life	12 months when stored as	directed					
Storage	The flour should be stored in cool dry conditions away from direct sunlight. The storage area should allow good air circulation and be free from any pest infestation.						
FiR Ingredient Declaratio	INICOTINAMINE (VIERS) INIAMINE AVOROCNIORINE (VIERI))						
n		Signature					
					Hughen		
Issue Date	2-Sep-19	Spec ID Revision	TL026 001	Res Ref	TL026		

HQ Address Mill of Manufacture Address Heygates Ltd, Tring Add 1 Heygates Ltd Add 1 Add 2 Bugbrooke Flour Mills Add 2 New Mill Add 3 Bugbrooke Add 3 Tring Add 4 Northants NN7 3QH Add 4 Herts HP23 4JN Tel No. 01604 830381 Tel No. 01442 823311 Fax No. 01604 831865 01442 890283 Fax No. **Contact Names Contact Tel No.s** Mill Manager Mr Paul Messenger 01442 823311 Sales & Techi Laurie Pearson 01604 830381 Quality Mana David Bailey 01604 830381 Out of Hrs Conta 24hr Security 01604 830381 **3rd Party Accreditation BRC** Yes BRC Exp Date April 20 The milling of white, wholemeal and brown wheat flours for retail and industrial (sack-**BRC Scope** packed and bulk tanker) supply **Food Safety Controls - Critical Control Points** Final Sieve Size 1mm Frequency of Inspection Daily Frequency of overtail Checks The flour will be free from foreign bodies Daily Blow Line Metal Detection Fe 1.5mm Nfe 1.5mm SS 2.0mm Bag Metal Detection Fe 1.5mm Nfe 1.5mm SS 1.5mm Packaging Size of bag 1.5Kg Microbiological limits Mean Figs from industry survey Mean Figs from industry survey 7749 CFU/g Presumptive Bacillus cereus Aerobic Total Viable Count 3.79 Yeasts & Moulds 2012 CFU/g Listeria spp (count) <10 Presumptive Coliforms MPN Salmonella 1.41 MPN Abs in 25q Presumptive Escherichia coli MPN 0.11 MPN Frequency of tests Post harvest **Micro Analy** We consider the product to be low risk microbiologically. The product should pass through a validated heat treating process i.e. cooking before final consumption. Mycotoxin / Pesticide Residue Tests All wheat and wheat derivatives meet current EU legislation **Test** Frequency of Test Ochratoxin A; DONS; ZONS Annually at Harvest then risk assessed basis following this. Pesticide Residue HGCA Project Typical results available on request

Food Allergen Information The following list of known allergens is based on the statutory instrument 2008: No.1188. the Food labelling (Declaration of

Jan-1

Q1: Is the allergen declared on the packaging label

Q2: Is this allergen used within the same production facility

Q3: Is there a risk of adventitious cross contamination

Q1 Q2 Q3 Cereals containing gluten YES YES N/A Crustaceans NO NO NO Eggs NO NO NO Fish NO NO NO Peanuts NO NO NO Soyabeans NO NO **YES** Milk NO NO NO Nuts (i.e. almonds, hazelnuts) NO NO NO Celery NO NO NO Mustard NO NO NO Sesame NO NO NO Sulphur dioxide & sulph^ >10mg/l NO NO NO NO Lupin NO NO Molluscs NO NO NO

Adventitious cross contamination can occur especially when handling foreign wheat. Transportation (vessels, trains, road haulage), port storage and conveying systems could be handled with other combinable crops. Measures are in place to reduce any adventitious contamination within the supply chain and Heygates employ the services of a port superintendent to check previous loads and to take samples of incoming wheat. The wheat cleaning screens room should extract seeds and grains based on density and size.

	Nut	tritional In	formation (per 100g)	
	Water (g)	14.2	* Magnesium (mg)	23.0
(0	Total Nitrogen (g)	1.6	Phosphorus (mg)	114.0
<u>ŏ</u>	Protein (g)	10.0	* Iron (mg)	1.9
<u> </u>	Fat (g)	1.4	Copper (mg)	0.2
Source	Av Carbohydrate (g)	80.9	Zinc (mg)	0.7
ı	Energy (kcal)	356.0	* Chloride (mg)	143.0
	Energy (KJ)	1516.2	* Manganese (mg)	23.0
1 0	Starch (g)	80.3	Selenium (ug)	3.0
ဂ္ဂ	Total Sugars (g)	0.6	Iodine (ug)	TR
McCance	Gluc (g)	TR	Retinol (ug)	0.0
6	Fruct (g)	TR	Carotine (ug)	0.0
	Sucr (g)	0.5	Vitamin D (ug)	0.0
_	Saturates (g)	0.4	Vitamin E (mg)	0.6
≥:	Malt (g)	0.1	Thiamine B1 (mg)	0.3
d	Lact (g)	0.0	Riboflavin B2 (g)	0.1
do	Dietary Fibre (g)	3.4	Niacin (mg)	1.7
Š	Satd (g)	0.4	Tryptophan/60 (mg)	2.0
& Widdowsons	Mono-unsatd	0.2	Vitamin B6 (mg)	0.2
n	Poly-unsatd (g)	0.2	Vitamin (B12 (ug)	0.0
S	Trans (g)	TR	Folates (ug)	16.0
	Cholest-erol (mg)	0.0	Pantothenate (mg)	0.4
	Sodium (mg)	2.0	Biotin (ug)	2.0
	Potassium (mg)	175.0	Vit C (mg)	0.0
	Calcium (mg)	96.0	* = Calculated values	

Yes	'
Yes	!
No	!
No	!
Yes	!
	Yes No No

Pest Control

No. of routine visits 26

No. of technical insp 4

Scope of pest Control:

Rodents & moth plus 24hr call out

Contractor:

Check Pest Control, Reading, Berkshire.

Wheat can be sourced from:UK, Poland, Germany, USA, Canada,
FranceCalcium: UK
Vit B3: India / ChinaIron: USA
Vit B1: China

UK= United Kingdom; GER= Germany; CAN= Canada; USA = North America; FR= France

Heygates Food Safety Policies

Genetic Modification

At this time no genetically modified wheat has been authorised in the EU for commercial cultivation, nor for import into the EU. NABIM (The National Association of British and Irish Millers) continue to monitor the developments in the areas of labelling and patenting of agricultural food products derived from GMO's and keep its members informed of any developments. Regulations (EC) 1139/98 and 49/2000, and the new regulations (EC) 1829/2003 and 1830/2003 on the compulsory labelling in foodstuffs of products derived from GMO's, do not apply and additional specific labelling is not required.

Nut Policy

Heygates Ltd do not process any nut or seed products at any of our flour production facilities. Flour is produced in a sealed system and conveyed by means of an enclosed pneumatic pipe to bulk storage where it can either be discharged into dedicated bulk flour tankers or packed into flour sacks.

COSHH

1: Product: TL026

Details below are for wheat flour - the worse case scenario

2: Composition/Information on Ingredients

Wheat Flour is produced by milling cleaned wheat grain or endosperm of cleaned wheat grain.

Flour is mainly used in the manufacture of bread, biscuits, confectionery, other foodstuffs and for various industrial purposes.

3: Hazards Identification

This product is not classified as hazardous to health according to EC directive.

8hr TWA STEL

MEL(maximum exposure limit) 10mg/m3 30mg/m3

In normal use wheat flour does not present a serious health risk and ingestion has no adverse effects. To comply with the Control of Substances Hazardous to Health Regulations and the assigned MEL, and for general health reasons outlined below, it is necessary to reduce so far as reasonably practicable personal exposure to any dust through enclosure, ventilation and the provision and use of personal protective equipment.

4: First Aid Measures

Inhalation: Flour dust may cause asthmatic reactions in a small proportion of susceptible employees. Remove affected person from area of exposure preferably into fresh air. Anyone who has asthmatic symptoms from an exposure to dust should seek medical advice. The symptoms normally disappear if the sufferer avoids further exposure.

Eyes: Flour dust may cause discomfort and the eyes should be washed with running water. Medical advice should be sought if the discomfort persists.

Skin: Flour can have a drying effect on the skin. For hygiene reasons it should be cleaned from broken skin to reduce risk of infection. There should be no adverse response from exposure to skin. It is only very rarely, if ever, the cause of dermatitis (see 8. Exposure and Controls below).

5: Fire Fighting Measures

Extinguish with Water(Red) or Foam (Cream).

Extinguish with Powder(Blue) should there be an electrical risk or electrical fire, when water and foam should not be used.

Extinguish with Foam(Cream) or Powder if burning liquids are involved.

Use of CO2 (Black), particularly large trolley-mounted extinguishers, may incur risk of generating an ignitable dust cloud.

6: Accidental Releases

Flour should be swept up, do not allow to enter drainage system, do not hose down.

Vacuum cleaners must be spark free and earthed. Vacuuming is the preferred method of cleaning. Brushes should preferably be of the type with coloured nylon bristles.

Compressed air is not suitable for cleaning jobs. It is dangerous and it spreads the problem to areas which are harder to clean and possibly into unexpected sources of ignition.

7: Handling and Storage

In bulk, flour should be stored at ambient temperatures in dry bins. Bagged flour should be stored in cool, dry conditions. Flour is usually supplied either by bulk tanker or in paper bags.

Static Electricity: The pneumatic intake of flour from bulk tankers can give rise to static electricity. Accordingly it is essential for blowlines to be earthed; suitable earthing points must be provided at the discharge point.

Manual Handling: All manual handling operations, including those involving flour bags, should be the subject of risk assessment appropriate to the environment and the physical characteristics of the handlers.

8: Exposure and Controls

Dust formation should be minimised during handling to prevent inhalation and skin contact. Overalls and dust respirators are recommended when handling loose materials. Spillages should be removed without delay to maintain hygiene standards and to minimise the level of dust in the atmosphere. Vacuum cleaning should be used wherever possible. It is unusual for contact with clean flour dust to cause dermatitis however high standards of personal hygiene should be maintained to avoid the possibility of dermatitis or product contamination.

9: Physical and Chemical Properties

White free flowing powder.

Particle Size

Will vary with flour type. E.g., in white flour a large majority of particles will be smaller than 150 microns, 50% of particles being smaller than 50 microns. For fine cake flours, about 50% of particles will be below 25 microns. In wholemeal flour, some particles will be greater than 300 microns.

Specific Heat

0.42 J/gm C.

Explosive Concentrations

Above 50g/m2. (Upper explosive limit concentrations are not well defined for combustible dusts.)

Ignition Temperatures

A cloud of flour in air can be ignited by surfaces at temperatures of about 400OC. Layers of flour on a hot surface can smoulder at around 200OC, leading to flame and ignition.

Kst Values

Comprehensive tests on flours indicate a range between 74 and 120 bar m/s, depending on the flour type, particle size and moisture content. (The limit for the least severe class of explosible dusts, St1, is 200 bar m/s and this figure is often used for determining suitable vent size.)

Density

Usually between 450 and 560 kg/m3.

10. Fire and Dust Explosion Hazards

Like most organic materials, flour dust is flammable. Although not especially combustible, in certain conditions flour can form dust clouds which, if ignited, can lead to a dust explosion. The following precautions should therefore be taken:

• Adequate extraction facilities should be provided in all areas subject to dust, • Care should be taken to prevent the formation of dust clouds in storage and conveying plant, • Potential sources of ignition should be avoided, • Silos and appropriate equipment, including blowlines, should be earthed to prevent ignition by electrostatic discharge, • Adequate explosion prevention or protection should be fitted to silos and other appropriate equipment, • Smoking must be prohibited near storage and handling areas, • Build-up of dust on beams and ledges – representing a potential dust cloud if dislodged - should be prevented, • Electrical equipment should be of the type suitable for flammable dusts

Further advice on this matter is contained in the technical data below and in "The Prevention of Dust Explosions in Flour Mills and Bulk Flour Containers", available from NABIM.

11. Toxicological Information

This product is non-toxic.

Ingestion: Safe for human ingestion.

Inhalation: Repeated exposure may cause sensitisation and asthma (see 8. Exposure and

control)

Eye: May cause discomfort as a foreign body/matter.

Skin: Slight drying of skin. May cause dermatitis in rare cases

12. Ecological Information

None available at this time

13. Disposal Considerations

Dispose of according to national and local regulations.

14. Transport Considerations

This product is not classified as dangerous goods.

15. Regulatory Information

The product is produced so as to comply with the prevailing requirements of the Food Safety Act and the Bread and Flour Regulations.

EH 40 Risk Phrases: none EH 40 Safety Phases: none

16. Other Information

Under Coshh Regulations the user is under a legal obligation to carry out sultable and sufficient assessment of the health and safety risks which this material may present.

Reference should be made to:

Occupational Exposure Limits EH40/current year

Preventing Asthma at Work L55

Handling of Combustible Dusts HSE 103

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of issue below. The information is for guidance in safe handling, use, storage, transportation, disposal and release and is not in itself a warranty or quality specification. The information relates only to the products identified. This Material Safety Data Sheet may not be valid for such product used in combination with other substances or processes which must be assessed separately.

HACCP - Process Flow Diagram

