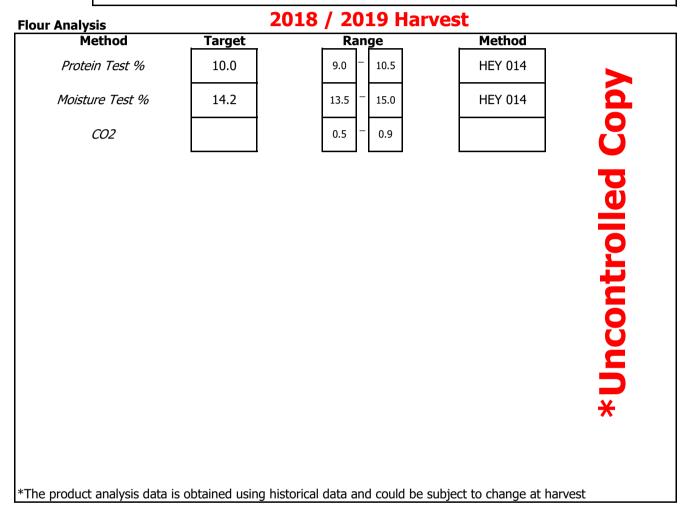
# Heygates Flour Mills Product Specification



Product Name	Customer Name	Cust Ref
Fine Lady Self Raising	Bradleys	HAR150

**Descriptio n of Flour** A free flowing off white powder that is free from hard lumps and foreign matter. The flour shall be odourless and should have a stringent taste. The product is suitable for the production of cakes, scones, biscuits and some pastries



Shelf Life	9 months when stored as directed		
Storage	The flour should be stored in cool dry conditions away from direct allow good air circulation and be free from any pest infestation.	t sunlight. The st	orage area should
FiR Ingredient Declaratio	Wheat Flour (WHEAT flour, Calcium Carbonate (E170), Iron, Nicotinamide (Vit B3), Thiamine Hydrochloride (Vit B1))	Prepared By	Dave Hughes
n Issue Date	Sodium Carbonates (E500) Calcium Phosphates (E341) 20. Aug. 10 Spec ID TL023	Signature	Hugh
	30-Aug-19 Revision 001	Res Ref	ГL023

HQ Address		Mill of Manufacture Address
Add 1	Heygates Ltd	Add 1 Heygates Ltd, Tring
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	Fax No. 01442 890283
Contact Na	mes	Contact Tel No.s
Mill Manager	Mr Paul Messenger	01442 823311
	Laurie Pearson	01604 830381
	David Bailey	01604 830381
- /		
Out of Hrs Conta	24hr Security	01604 830381
2nd Danta A	erroditation	
3rd Party A	ccreditation	
BRC	Yes	BRC Exp Date April 20
BDC Scone	The milling of white wholes	neal and brown wheat flours for retail and industrial (sack-
BRC Scope	packed and bulk tanker) sup	
Food Safety	/ Controls - Critical Contro	ol Points
-		
Final Sieve Si	ze	1mm Frequency of Inspection Daily
Frequency of	overtail Checks	Daily The flour will be free from foreign bodies
Blow Line Me	etal Detection Fe	1.5mm Nfe 1.5mm SS 2.0mm
Bag Metal De	etection Fe	e 4.0mm Nfe 4.0mm SS 4.0mm
Packaging		
	1.5Kg	
Microbiolog	Jical limits Mean Figs fi	rom industry survey Mean Figs from industry survey
-	Viable Count	7749 CFU/g Presumptive Bacillus cereus 3.79
Yeasts & Mou		
		2012 CFU/g Listeria spp (count) <10
•	Coliforms MPN	1.41 MPN Salmonella Abs in 25g
Presumptive	Escherichia coli MPN	0.11 MPN Frequency of tests Post harvest
Micro Analy		
1 1		be low risk microbiologically. The product should pass through
	a validated heat treating pro	cess i.e. cooking before final consumption.
Mycotovic	/ Pesticide Residue Tests	All what and what derivatives must surrent EU locidation
	Test	All wheat and wheat derivatives meet current EU legislation 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

	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
Lupin	NO	NO	NO
Molluscs	NO	NO	NO

Q1: Is the allergen declared on the packaging labelQ2: Is this allergen used within the same production facilityQ3: Is there a risk of adventitious cross contamination

Jan-13

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.

			ormation (per 100g)	
	Water (g)	14.2 *	Magnesium (mg)	25.0
(	Total Nitrogen (g)	1.6	Phosphorus (mg)	463.0
ŏ	Protein (g)	10.0 *	Iron (mg)	1.7
LL LL	Fat (g)	1.5	Copper (mg)	0.1
<u>Č</u>	Av Carbohydrate (g)	79.6	Zinc (mg)	0.8
	Energy (kcal)	352.0 *	Chloride (mg)	108.0
~	Energy (KJ)	1499.1 *	Manganese (mg)	0.8
$\overrightarrow{c}$	Starch (g)	79.0	Selenium (ug)	3.0
C:	Total Sugars (g)	0.6	Iodine (ug)	TR
ne	Gluc (g)	TR	Retinol (ug)	0.0
Ē	Fruct (g)	TR	Carotine (ug)	0.0
CD CD	Sucr (g)	0.5	Vitamin D (ug)	0.0
<u></u>	Saturates (g)	0.4	Vitamin E (mg)	0.6
$\leq$	Malt (g)	0.1	Thiamine B1 (mg)	0.3
Source - McCance & Widdowsons	Lact (g)	0.0	Riboflavin B2 (g)	0.1
d	Dietary Fibre (g)	3.1	Niacin (mg)	1.7
Ŭ M	Satd (g)	0.4	Tryptophan/60 (mg)	2.0
IS	Mono-unsatd	0.2	Vitamin B6 (mg)	0.2
0 n	Poly-unsatd (g)	0.4	Vitamin (B12 (ug)	0.0
N	Trans (g)	TR	Folates (ug)	18.0
	Cholest-erol (mg)	0.0	Pantothenate (mg)	0.4
	Sodium (mg)	342.0	Biotin (ug)	2.0
	Potassium (mg)	190.0	Vit C (mg)	0.0
	Calcium (mg)	280.0 *	= Calculated values	
	Suitable For		Pest (	Control
Ovo-lacto veg		Yes	No. of routine visits	26
Vegans		Yes	No. of technical insp	4
Coeliacs		No	Scope of pest Contro	
Kosher approved No		Rodents & moth plus 24		
Halal approve		No	Contractor:	
			Check Pest Control, Rea	dina Berkshire
Wheat can b	UK UK	, Poland, Germany, U		Iron: USA
Theat call i		France	Vit B3: India / China	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: TL023
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
brough 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.
Jse 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**

i nis 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 suitable 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

