# Heygates Ltd Flour Specification



Product Name Customer Name Cust Ref

TD905 UT PILOT Bradleys HAR150

#### **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.

## 2020 Harvest

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FIA	- A -		-:-
Flou	г дг	ıaıv	

ur Analysis				
Method	Rai	nge	Method	
NIR PROTEIN (Dumas N x 5.7 as is)	10.8	11.8	HEY 014	
NIR MOISTURE (90 MINS @130C)	Max	15.0	HEY 014	7
NIR FLOUR COLOUR GRADE	Max	-1.5	HEY 014	olle. /
FALLING NUMBER	Min	280	HEY 06	0
				op
				80
				Un

Shelf Life & 365 Days FLOUR IS A RAW INGREDIENT AND MUST BE COOKED OR BAKED BEFORE EATING

Storage Flour should be stored in cool, well ventilated and pest-free areas away from direct sunlight.

We reserve the right to source wheat from the global market to ensure consistent quality

Ingredients

Wheat

Calcium Carbonate (E170), Iron, Niacin, Thiamine

We reserve the right to source wheat from the global market to ensure consistent quality

UK, GER, POL, FRA, SWE, CAN, USA

UK, USA, IND, CHN, SWE

Stat Adds UK and NI Bread and Flour Regulations 1998

IIO Adduses								
HQ Address		llaventa a ltd		l <b>.</b>				
Add 1		Heygates Ltd	. N4:11 -	i ne i	below sit	es are appro	ved to supply	
Add 2		Bugbrooke Floui	r MIIIS					
Add 3		Bugbrooke	2011	Floui	name:	TD905 UT P	ILOT	
Add 4		Northants NN7	3QH	_		I		
Sales & Techr		Mervin Poole		To:		Bradleys		
Quality Manag	Quality Manager David Bailey							
Export Decla	arations			_				
Heygates EOF	RI No.	GB119291076				Goods are o	f UK Origin	
Product comn	nodity code	11010015						
	Т	<u>App</u>	roved S	Sites For The	Supply O	f This Produ	<u>ct</u>	
Add 1	Heygates Ltd,	Tring		Add 1	Hevnates	Ltd, Bugbrooke	7	
Add 1 Add 2	New Mill	Tillig		Add 1 Add 2		e Flour Mills	·	
Add 3	Tring			Add 2 Add 3	Bugbrook			
Add 4	Herts HP23 4	1NI		Add 3 Add 4	_	s NN7 3QH		
Tel No.	01442 823311			Tel No.	01604 83	-		
					01604 83			
Fax No.	01442 890283	)		Fax No.		1805		
Grade	A	to wholemed and brow	ın uubont	Grade	A The milling	of whoat flours inclu	ding boot trooted	
Scope	_	te, wholemeal and brow lucts, for retail (1.5kg fl		Scope	_	of wheat flours included bread mixes and	_	
		ck-packed and bulk tank	٠, ١		'	ducts, including co-p		
	supply. Cert No. E	SP 21707.				pply (sack packed a	nd bulk tanker).	
					Cert No. ESF	P 23255.		
BRC validation	BR@S Dire	Site (		BRC validation	DRES	Directory	Site Code	
		12205	943	(pls click icon	)		1127834	
Food Safety	Controls - C	Critical Control	Points					
l ood Salety	Controls C		· Oiiic					
Final Sieve Siz	ze	1	mm		Frequen	cy of Inspection	on Weekly	
Frequency of	overtail Check	KS	aily	The f	lour will l	be free from	foreign bodies	5
Blow Line Met	al Detection	1.050	e, 1.0Nfe	2 055				
Bag Metal Det			, 1.0Me, 3.					
bag Metal De	tection	2.31	, INIC, 3	.0 33				
Packaging								
Size of bag	16Kg	Bag Dim. 32	20x135x	<del>&lt;720</del>	Pri	mary Packagir	ng Paper sack	
				<u>_</u>			Pallet Config	geration
Weight	2x80g Ply		Secor	ndary Packaging	Spin wra	p N	lo. per layer	5
	, ,			, ,		_	No. layers	13
							,	
Microbiologic				m industry surv	-	_	m industry surve	y
Aerobic Total	Viable Count	31	.999 cfu/g	Presumptive Ba	acillus cere	eus	37 cfu/g	
Yeasts & Mou	lds	20	41 cfu/g	Listeria spp (co	ount)		<10	
Presumptive (	Coliforms	141	4 cfu/a	Salmonella	•		Abs in 250g	
•					ests	Post		
Micro	Presumptive Escherichia coli 0 cfu/g Frequency of tests Post harvest  Micro We consider the product to be low risk microbiologically. The product should pass through a validated heat				d hoat			
Analysis		ess i.e. cooking bef			THE produ	ct siloulu pass t	illough a valluated	u Heat
, 5.5		AW INGREDIENT			JE BAKED I	REFORE FATING	3	
Mycotoxin /		esidue Tests					current EU legis	lation
Prycoloxiii /	Test	esidue l'ests				ivatives illeet	current EU legis	iatiUH
\A/ba=4		1. DONG: 70NG		Frequency of		rick account	bacic following	thic
wneat		A; DONS; ZONS			i vest trien		basis following	
	Pesticide Re	siuue		HGCA Project		i ypicai results	s available on requ	Jest

#### Food Allergen Information

The following list of known allergens is based on the statutory instrument 2008: No.1188. the Food labelling (Declaration of Allergens)(England) regulations 2008 - Amended March 2011

	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^ >10	NO	NO	NO
Lupin	NO	NO	NO
Molluscs	NO	NO	NO

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

Adventitious cross-contamination can occur in the wheat transport chain. Transportation (vessels, trains, road haulage), ports, storage and conveying systems may carry other combinable crops when they are not used for wheat. Best practice controls are in place to reduce any adventitious contamination within the supply chain. Heygates employ the services of a port superintendent to check previous loads and inspect samples of incoming wheat at the port. Wheat is tested and cleaned when it enters the mill to minimise the inclusion of any adventitious cross contamination. However, the supply chain is not

Nutritional Information (per 100g)

T Ρ Source - McCance & Widdowsons F Α Ε Е S Т G F S S Μ L D S Μ

https://www.gov.uk/govemment/publications/composition-of-foods-integrated-dataset-cofi

Water (g)	11.7
Total Nitrogen (g)	2.0
Protein (g)	11.3
Fat (g)	1.2
Av Carbohydrate (g)	79.2
Energy (kcal)	353.0
Energy (KJ)	1504.0
Starch (g)	78.7
Total Sugars (g)	0.5
Gluc (g)	TR
Fruct (g)	TR
Sucr (g)	0.4
Saturates (g)	0.3
Malt (g)	TR
Lact (g)	0.0
Dietary Fibre (g)	3.1
Satd (g)	0.3
Mono-unsatd	0.2
Poly-unsatd (g)	0.3
Trans (g)	TR
Cholest-erol (mg)	0.0
Sodium (mg)	2.0
Potassium (mg)	166.0

Typical

134.0

26.0
128.0
1.9
0.2
0.8
98.0
0.7
9.0
TR
0.0
0.0
0.0
0.4
0.3
0.0
1.8
2.3
0.2
0.0
16.0
0.3
1.0
0.0

**Suitable For** 

Calcium (mg)

Vegetarian Vegans Coeliacs Kosher Halal

Yes
Yes
No
Suitable
Yes

**Pest Control** 

No. of routine visits
No. of technical insp

26	
4	

Scope of pest Control:

Rodents & moth plus 24hr call out

**Contractor:** Check Pest Control, Reading, Berkshire.

#### **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: TD905 UT PILOT

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/m<sup>2</sup>. (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  $400^{\circ}$ C. Layers of flour on a hot surface can smoulder at around  $200^{\circ}$ C, 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**

Process	Status	Checks /	
110003	Status	Monitoring	
Wheat Intake	PRE REQ - pesticide, moisture, taint & infestation	All wheat is sampled and positively released	
Wheat Storage			
Wheat Conditioning	<b>CP</b> - micro hazard from mains water	Water tested for micro content every year	
Wheat Cleaning			
Milling		Daily detector tests and rejects sampled	
Metal Detector	<b>CCP</b> - metal contamination	1.0Fe, 1.0Nfe, 2.0SS	
Final Sieve	<b>CCP</b> - foreign body contamination	Sieve integrity and overtail checks	
Storage			
Packing		2 hrly bag metal detector checks	
Bag Metal Dec	CCP - metal contamination	2.5Fe, Nfe, 3.0 SS	
Palletisation & Despatch			
<b>Bulk Outloading</b>			
Despatch	<b>CP</b> - Tanker hygiene	Tanker cleaning schedule	