Heygates Ltd Flour Specification



Product Name Customer Name Cust Ref

TG016 KRISBITE 12.5% Bradleys HAR150

Description Of Flour

A blend of wheat flour and maize flour specially designed for use in short and sweet pastries

2020 Harvest

Flour Analysis

Issue Date

 Method
 Range
 Method

 NIR PROTEIN (Dumas N x 5.7 as is)
 8.7 10.5
 HEY 014

 NIR MOISTURE (90 MINS @130C)
 Max 15.0
 HEY 014

*Uncontrolled Copy

Prepared By

*The product analysis data is obtained using historical data and could be subject to change at harvest

Shelf Life & 180 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, Maize

Calcium Carbonate (E170), Iron, Niacin, Thiamine

UK, USA, IND, CHN, SWE

UK, USA, IND, CHN, SWE

Calculate Carbonate (E170), 101, Machin, Thanhane OK, 03A, 1ND, CHN, 3

Stat Adds UK and NI Bread and Flour Regulations 1998

Spec ID

22-Jan-21 Version 22/01/2021 ATV - Anne Taylor-Vissers

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HQ Address								
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Add 3		Bugbrooke Northants	NN7 20H	Flour	name:	I GUIO KRIS	BITE 12.5%	
I				.		Due dieue		
		Mervin Poo		To:		Bradleys		
Quality Manag	ger	David Baile	У	J				
Export Decla	arations							
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Grade	A			Grade	A			
Scope	The milling of wh flour, blended bre		-	Scope	_	of white, wholemea	I and brown wheat il (1.5kg flour bags)	
	derived products,					al (sack-packed and		
	industrial supply		•			No. ESP 21707.	,	
	Cert No. ESP 232	55.						
BRC validation	BR@S Dire	ectory	Site Code	BRC validation	DR C3	Directory	Site Code	
		,	1127834	(pls click icon))	,	1220543	
Food Safety	Controls - C	Critical Cor	trol Points	1				
Final Sieve Siz	ze		1 mm]	Frequen	cy of Inspecti	on Weekly	
Fraguency of	overtail Chee	ko	Daile] The fi	our will	ha fuaa fuam	foreign bodi	ion.
Frequency of	overtall Chec	KS	Daily	i ne n	our wiii	be tree trom	foreign bodi	es
Blow Line Met	al Detection		1.5Fe, 1.5Nfe	e, 2.0SS				
Bag Metal Det	tection		4.0Fe, Nfe, S					
J			, ,					
Packaging Size of bag	16Kg	Bag Dim.	320x135	v720	Dri	many Packagi	ng Paper sack	1
Size of bag	TONG	J bag biiii.	J20X133	X720	ГП	illaly Fackagi		l nfigeration
Moight	2x80g Ply		Soco	ndary Packaging	Cnin wra	<u>م</u> ۱	No. per layer	ingeration
weigin	ZXOUY PIY		Secoi	idaly Packaging	Spili Wia	<u>ы</u> г		13
							No. layers	13
Microbiologic	al		Mean Figs fro	om industry surve	ey	Mean Figs fro	om industry sur	vey
Aerobic Total	Viable Count		31999 cfu/g	Presumptive Ba	acillus cer	eus	37 cfu/g	
Yeasts & Mou	lds		2041 cfu/a	Listeria spp (co	unt)		<10	
Presumptive (Coliforms			Salmonella	,		Abs in 250g	
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				tad bast				
Analysis					rne produ	ct snould pass	u irougii a vaiiua	ileu neat
, 515				I consumption.	D BVRED	REEODE EATIN	G	
FLOUR IS A RAW INGREDIENT AND MUST BE COOKED OR BAKED BEFORE EATING Mycotoxin / Pesticide Residue Tests All wheat and wheat derivatives meet current EU legislation								
Prycoloxiii /	Test	coluue 165		Frequency of		וימנויכט וווכפנ	carrent EU 160	_ม เอเสนบH
Wheat	: Ochratoxin /	Δ · D∩N C · 7/	ONS	Annually at Har		rick accecsor	d hasis followin	a thic
AAIICAL	Pesticide Re		J110	HGCA Project	vest tileli		s available on re	-
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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) Typical

Source - McCance & Widdowsons ps://www.gov.uk/govemment/publications/composition-of-foods-integrated-dataset-cof
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······· (p ··· = · · ·)	- /
Water (g)	11.8
Total Nitrogen (g)	1.7
Protein (g)	10.0
Fat (g)	1.1
Av Carbohydrate (g)	80.8
Energy (kcal)	353.0
Energy (KJ)	1505.0
Starch (g)	80.4
Total Sugars (g)	0.4
Gluc (g)	TR
Fruct (g)	TR
Sucr (g)	0.4
Saturates (g)	0.3
Malt (g)	TR
Lact (g)	0.0
Dietary Fibre (g)	2.9
Satd (g)	0.3
Mono-unsatd	0.2
Poly-unsatd (g)	0.6
Trans (g)	TR
Cholest-erol (mg)	0.0
Sodium (mg)	3.1
- · · · · ·	4 4 = 6

23.0
114.1
1.7
0.1
0.8
90.0
0.6
7.9
TR
0.0
0.0
0.0
0.4
0.7
0.0
1.6
2.0
0.1
0.0
14.3
0.3
0.9
0.0

	For

Potassium (mg)

Calcium (mg)

Vegetarian Vegans Coeliacs Kosher Halal

Yes
Yes
No
Suitable
Yes

Pest Control

145.6

117.5

No. of routine visits
No. of technical insp

Ĺ	52
	4

Scope of pest Control:

Rodent & SPI 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: TG016 KRISBITE 12.5%

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 400° C. Layers of flour on a hot surface can smoulder at around 200° 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 / Monitoring
Wheat Intake	PRE REQ - pesticide, moisture, taint & infestation	All wheat is sampled and positively released
Wheat Storage		
Wheat Conditioning	CP - micro hazard from mains water	Water tested for micro content every year
Wheat Cleaning		
Milling		Daily detector tests and rejects sampled
Metal Detector	CCP - metal contamination	1.5Fe, 1.5Nfe, 2.0SS
Final Sieve	CCP - foreign body contamination	Sieve integrity and overtail checks
Storage		
Packing		2 hrly bag metal detector checks
Bag Metal Dec	CCP - metal contamination	4.0Fe, Nfe, SS
Palletisation & Despatch		
Bulk Outloading		
Despatch	CP - Tanker hygiene	Tanker cleaning schedule