



<b>SKIMMED MILK POWDER MEDIUM HEAT (MH) 25Kg &amp; 1 Tonne Bags</b>		<b>Unternehmensgruppe Theo Müller</b>		
Area: BULK PRODUCT SPECIFICATION				
Doc Ref: IND/SMP/3001	Site: Severnside	Version: 11	Effective from: October 2021	

PRODUCT INFORMATION	
Product Title	Medium Heat Skimmed Milk Powder
Legal Name	Skimmed Milk Powder
Description	<p>Skimmed Milk Powder is manufactured from freshly separated skimmed milk, which is concentrated under vacuum and the resulting concentrate spray dried.</p> <p>Raw milk used to produce this product is from Red Tractor approved farms. The powder is produced under the hygienic conditions expected of the dairy industry and complies with UK &amp; EU Regulations / Statutory Instruments / Acts of Parliament.</p> <p>The powder is produced at Muller Milk &amp; Ingredients Severnside creamery bears oval identification mark which demonstrates that it is fit for human consumption and was produced in accordance with EU legislation. Typically a pale cream in colour with no signs of browning. It is free flowing and free from lumps other than an occasional few which break up under slight pressure.</p>
Country of Origin (as per DEFRA guidance)	Made in the UK using British milk
MMI product code	72336 / 72333

ORGANOLEPTIC PROPERTIES / ATTRIBUTES	
Appearance	Pale cream free flowing powder
Flavour	Characteristic flavour and free from any taints, odours or off flavour
Aroma	Typical skimmed powdered aroma free from off odours
Body / Texture	Free flowing powder
Products shall be free from foreign matter, mould, pest infestation, off flavours and odours	

INGREDIENT DECLARATION (ingredients derived from allergens to be highlighted in bold)
Not Applicable

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*Allergy Advice: Contains Milk*

RAW MATERIALS / RECIPE TABLE				
Material	%	Description	Supplier	Country of Origin
Skimmed Milk Powder	100	Spray dried skimmed milk	MMI Approved FA Farms	UK

*Lactose may be used to standardise protein content*

NUTRITION		
Source of Data: McCance and Widowsen's The Composition of Foods		
Nutrient	Units	Typical Values Per 100g/ml
Energy (calculated from protein, carbohydrate, fat, fibre & alcohol values, where applicable)	kJ	1535
	kcal	361
Fat	g	0.6
Of which saturates	g	0.4
Of which monounsaturates	g	0.2
Of which polyunsaturates	g	tr
Carbohydrate	g	52.9
Of which sugars	g	52.9
Fibre	g	nil
Protein	g	36.1
Salt (equivalent to sodium x 2.5)	g	1.4

GENETICALLY MODIFIED INGREDIENT POLICY
The Unternehmensgruppe Theo Müller S.e.c.s does not use genetically modified raw materials with labelling requirements in accordance with Regulation (EC) No 1829/2003 and Regulation (EC) No 1830/2003

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**ALLERGEN DECLARATION / CROSS CONTAMINATION RISK**

Contains	Yes / No	Comments
Peanuts / peanut by-product including oils	NO	
Milk / milk by-products (e.g. whey, lactose, milk proteins, caseinate, butter, cream)	YES	Contains Cow's Milk – Skimmed milk powder
Egg / egg by-products	NO	
Shellfish and crustaceans (including mollusc)	NO	
Fish and fish products	NO	
Soybeans / soy by-products, including oils	NO	
Cereals containing gluten (wheat, barley, rye, oat, spelt, triticale, kamut and all their hybrid strains)	NO	
Sesame seeds, sesame oil and derivatives	NO	
Tree nuts (hazelnuts, almonds, walnuts, pistachio, pecans, cashews, macadamia (Queensland) nuts, Brazil nuts, pine nuts, hickory, hazelnuts/filberts) Coconuts and their derivatives	NO	
Sulphites and sulphur dioxide at levels of 10mg/Kg or 10mg / Litre expressed as SO <sub>2</sub>	NO	
Celery and derivatives including Celeriac	NO	
Mustard, mustard products	NO	
Lupins and derivatives	NO	

**SPECIAL INTEREST SUITABILITY / INTOLERANCE INFORMATION**

	Yes / No	Comments / give details where necessary
Certified	No	
Suitable for Coeliacs	Yes	
Gluten-free according to Regulation (EU) No 609/2013	Yes	
Suitable for Lactose Intolerants	No	
Suitable for Lacto-Ovo Vegetarians	Yes	
Suitable for Vegans	No	
Certified Halal	Yes	

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Certified Kosher	Yes	
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FREE FROM DECLARATION

Category	Yes / No	Give details if present, including labelling requirements where necessary
Additives	YES	
Preservatives	YES	
Natural colours	YES	
All added colours	YES	
Butylated Hydroxyanisole or Butylated Hydroxytoluene	YES	
Benzoates	YES	
Nitrites / nitrates	YES	
Natural flavours	YES	
All added flavours	YES	
Flavour enhancers including glutamates, guanylates, inosinates, glycines and ribonucleotides	YES	
Added MSG	YES	
Sweeteners	YES	
Added sugars	YES	
Added salt	YES	
Salt substitute Potassium Chloride	YES	
A source of phenylalanine (Aspartame)	YES	
Palm oil	YES	
Hydrogenated vegetable oil / fat	YES	
Garlic or garlic derivatives	YES	
Yeast or yeast derivatives	YES	
Maize or maize derivatives	YES	
Fruit or fruit derivatives	YES	
Vegetable or vegetable derivatives	YES	
Beef or beef derivatives	YES	
Pork or pork derivatives	YES	
Lamb / mutton or lamb / mutton derivatives	YES	
Avian products or derivatives	YES	
Animal products or by-products	NO	Contains Cow's milk
H.V.P's - State whether acid or enzymatically hydrolysed	YES	
H.V.P's - Chloropropanol levels <10mg/kg	YES	
Irradiated Materials	YES	

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**PRODUCT SAFETY INFORMATION**

The product supplied complies with all applicable UK & EU Regulations, Statutory Instruments & Acts of Parliament.

All processes and procedures are carried out under hygienic conditions and in accordance with Food Industry Good Manufacturing Practice and HACCP methodology, in BRC accredited facilities.

**MICROBIOLOGICAL SPECIFICATION**


PARAMETER	TARGET	REJECT	METHOD	FREQUENCY
*Enterobacteriaceae	<10 cfu/g	>10 cfu/g	Petrifilm	Each Batch
*TVC	10,000/g max	>10,000 cfu/g	Petrifilm	Each Batch
*Staphylococcus aureus	<10 cfu/g	>10 cfu/g	External	Each Batch
*Salmonella	Absent in 4 x 375g	Present in 4 x 375g	External	Each Batch
Listeria monocytogenes	Absent in 25g	Present in 25g	External	Monthly
*Yeast	<100 cfu/g	>100 cfu/g	Petrifilm	Each Batch
*Mould	<100 cfu/g	>100 cfu/g	Petrifilm	Each Batch
E.Coli	<10 cfu/g	>10 cfu/g	External	Each Batch

\*Test Results on C of A


**PHYSICAL / CHEMICAL SPECIFICATION**

TEST	TARGET	REJECT	METHOD	FREQUENCY
*Moisture	4.0% max	>4.0%	Internal Infra red	Each Batch
*Fat	1.25 % max	>1.25 %	Internal FT	Each Batch
*Titratable Acidity	0.15 % max	>0.15 %	Internal Titration	Each Batch
Solubility Index	>1.0 ml		Internal	Monthly
*Scorched Particles	Disc A max (Disc B acceptable)	<Disc B	Internal Disc Method	Each Batch
Whey Protein Nitrogen	1.51 - 5.99 mg/g		ADPI Modified (Disc B acceptable)	Monthly
*Protein	34.5%	<34%	Internal Infrared	Each Batch
Lactose	49.5 ± 2.5 %		External Lab	Monthly
Ash	7.9 ± 0.2%		External Lab	Monthly
Phosphatase (flouorpos)	<100Mu/l	>300 Mu/l	External Lab	Monthly

\*Test Results on C of A


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PACKAGING INFORMATION – 25Kg BAG 2ply + LINER					
All primary packaging complies with all current EU and UK Materials and Articles and Plastic Materials and Articles in Contact with Food Regulations as applicable.					
PACKAGING	Component	Material	Weight / /Dimensions	% Recycled content	Packaging recyclable
Primary / food contact	2 Ply + Liner Bulk Bag for SMP	LDPE Extra Care (in liner blue) + Kraft paper	266g 780 x 560 x 180mm	0%	No
Secondary(stabilise the pallet)	wrapper film	LDPE	610g	0%	No
Secondary(stabilise the pallet)	Layer pad	Corrugated carboard	333g 1120 x 925mm	100%	Yes
Secondary(protect intruders from the top of the pallet)	Plastic film	LDPE	179.72 1830 x 2135mm	0%	No
LABELLING & PRINTING					
Packaging	Component	Material	Weight / Dimensions	Barcode	
Primary (on the bag)	Printed in ink on base of bag. Production Date / Expiry Date / Site / Julien Date Code i.e. BM9136 / Silo Number i.e. S2 / Bag Number				
Outer label position (on the wrapper film)	Label printed by Inkjet	Paper	4 g	Yes	No
PALLETISATION					
Pallet Dimension	Pallet material type	No. per outer	Outers per layer	Layers per pallet	Outers per pallet
1000 x 1200 mm	wood	1	4	10	40

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Packaging Information – 1 Tonne Bag						
All primary packaging complies with all current EU and UK Materials and Articles and Plastic Materials and Articles in Contact with Food Regulations as applicable.						
PACKAGING	Component	Material	Weight / Dimensions	% Recycled content	Packaging recyclability	
Primary / food contact	Bulk Bag for Powdered Products	UV-stabilized; PP-fabric and PP-yarn Bulk Bag	950 x 950 x 1550mm 850g	0%	100%	
Secondary / outer	N/A	N/A	N/A	N/A	N/A	
Labelling / Printing	Component	Material	Weight / Dimensions	Barcode		
Primary	FIBC	As above	As above	N/A		
Secondary	N/A					
Information on bag	Printed in ink on base of bag. Production Date / Expiry Date / Site / Julien Date Code i.e. BM9136 / Silo Number i.e. S2 / Bag Number					
Outer label position	N/A printed bags					
Tamper Evident Sealing	Polypropylene band seal					
Palletisation	Pallet type	No. per outer	Outers per layer	Layers per pallet	Outers per pallet	Pallet height
	wood	1	1	1	1	
Unit weight - gross	1000.85Kg		Unit weight - net		1 tonne (1000Kg)	

FOREIGN BODY CONTROL	
FILTERS	N/A

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METAL DETECTION: Sensitivity	2.5mm Fe, 3.0mm Non-Fe, 3.0mm SS
Frequency Frequency of detector checks	Each Bag Start-up, every 10 tonnes and end of run
Rejection Method	Belt stops , alarm sounds

STORAGE / HANDLING REQUIREMENTS	
Recommended storage conditions	Ambient Temperature
Maximum Life from date of manufacture	24 months
Minimum Life on delivery	As agreed with customer (75%)
Maximum Life from date of opening in optimum conditions	3 weeks in a re-sealed container
Other Instructions	Product should be stored at ambient temperature in a dry place in a sealed container away from strong odours. Under these conditions, shelf life is at least twenty four months from date of manufacture.
Durability Coding	Printed in ink on base of bag. Production Date Expiry Date Site Julien Date Code i.e. BM9136 Silo Number i.e. S2 Bag Number

HACCP & PEST CONTROL	
Pest Control Company	Rentokil / Ecolab
Visits Per Annum	8 Technical visits & 4 Biologist visits per annum
HACCP	A full HACCP system is in operation on site, and is reviewed annually. A copy of the HACCP, process flow & Certificates will be made available on request

MANUFACTURING & PACKING SITES			
Site	Address	Telephone No.	Heath Mark
Severnside	Severnside, Oldends Lane, Stonehouse, GL10 2DG	01453 435543	GB GS 003



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SITE ACCREDITATIONS	
Site & Healthmark Abbreviation	Accreditation
Severnside GB GS003	BRC, Halal and Kosher , Red Tractor

CONTACT DETAILS	
Address Details	Müller Milk & Ingredients 159, Glasgow Road, East Kilbride, Glasgow. G74 4PA. OR Müller Dairy Ireland Ltd 8th Floor, Block E Iveagh Court, Harcourt Road, Dublin 2.
Careline Details	0800 328 1000 care@muller.co.uk / www.muller.co.uk
Data Enquiries	specificationteam@muller.co.uk
Quality Enquiries	qualitysysadmin@muellergroup.com