

# **Product Technical Dossier**

Product	Magnesium Oxide Heavy (59.10% - 60.60% Mg)
CCL Product Code	P1305

### **Specification Details**

	Specification	
Identification	Positive	
Assay (after ignition)	MgO 98.0% - 100.5%	
Mg Content	Approx. 59.10% - 60.60% (Calculated)	
Appearance	Fine Powder	
Colour	White to Off White	
Aroma	Characteristic	
Flavour	Characteristic	
Loss on Ignition	Max 5.0%	
Chloride (CI)	Max 0.1%	
Sulphate (SO4)	Max 1.0%	
Calcium Oxide (CaO)	Max 1.5%	
Substances Insoluble in Acetic Acid	Max 0.1%	
Free Alkali and Soluble Substances	Max. 2.0%	
Bulk density	0.4~0.6 g/cm <sup>3</sup>	

# Microbiological Limits

Total Viable Count	Max 1,000cfu/g
Yeasts	Max 75cfu/g
Moulds	Max 75cfu/g
E. Coli	Negative/1g
Salmonella	Negative/25g
Coliforms	Max. 10cfu/g

#### **Heavy Metal Limits**

Total Heavy metals	Max 20ppm
Lead (Pb)	Max 2ppm
Cadmium (Cd)	Max 1ppm
Mercury (Hg)	Max 0.1ppm
Arsenic (As)	Max 1ppm
Iron (Fe)	Max 500ppm

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#### Additional Technical Information

Chemical Name	Magnesium Oxide Heavy (E530)
The material is Food Grade	Yes
Solvents Used	Water
Country of Origin	China
Country of Manufacture	China
Melting Point	2852 °C
Solubility in Alcohol	Insoluble in Ethanol
Solubility in Water	6.2mg/L at 20°C, react
Average Molecular weight	40.30
Molecular Formula	MgO
CAS Number	1309-48-4
EC/EINECS Number	215-171-9
RTECS Number	OM3850000
Shelf Life from Date of Manufacture	Min 3 Years to Min 2 years
Pharmacopeia Standard Used	FCC/USP/EP
Suitable for Vegetarians?	Yes
Suitable for Vegans?	Yes
Storage Conditions	This material is to be stored in a tightly sealed bag/container and to be kept in a cool place away from moisture and direct sunlight.

#### Composition Origin, Function and Percentages

Ingredients	Function	% composition	Source
Magnesium Oxide	-	100%	Chemical Synthesis

Please note that surveillance testing may mean that not all the parameters stated on this specification are tested for every batch.

The allergen information is supplied by the manufacturer, we have not tested for each individual allergen to ensure they are not present. The information given is based on a documented risk assessment and is accurate to the best of our knowledge. If you intend to make a voluntary "free from" claim on your pack, additional testing may need to be carried out. For technical and labelling guidance, you should always speak to the competent authority for the market or member state in which the final products are placed.

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Allergens	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross- contamination? YES/NO or N/A
Peanuts and Peanut Derivatives (including possible cross contamination)	No	No	N/A
Nut and Nut Derivatives Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoiesis (Wangenh.), K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut (Macadamia ternifolia)	No	No	N/A
Sesame Seeds and Sesame Seed Derivatives	No	No	N/A
Milk and Milk Derivatives (including lactose)	No	No	N/A
Egg and Egg Derivatives	No	No	N/A
Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten (wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass)	No	No	N/A
Soya and Soya Derivatives	No	No	N/A
Lupin and Lupin Derivatives	No	No	N/A
Mustard and Mustard Derivatives	No	No	N/A
Celery or Celery Derivatives (including Celeriac)	No	No	N/A
Fish and Fish Derivatives	No	No	N/A
Molluscs and their Derivatives	No	No	N/A
Crustaceans and their Derivatives	No	No	N/A
Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre	No	No	N/A

Additives / Contaminants / Dietary Requirements / Intolerances	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross- contamination? YES/NO or N/A
Additives / E Numbers	Yes	Yes	E530
Antioxidants	No	No	N/A
Ethylene Oxide	No	No	N/A
Gelatine	No	No	N/A
Flavourings (Artificial / Nature Identical / Natural / Smoked)	No	No	N/A
Maize / Com and any Derivatives	No	No	N/A
Legumes / Pulses	No	No	N/A
Rice and Rice Derivatives	No	No	N/A
Added Salt	No	No	N/A
Added Sugar / artificial or natural sweeteners	No	No	N/A
Aspartame	No	No	N/A
BHA / BHT (E320 / E321)	No	No	N/A
Caffeine	No	No	N/A
Colours (Artificial / Nature Identical / Natural / Smoked)	No	No	N/A
Dextrose	No	No	N/A
other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)	No	No	N/A
Kiwi fruit	No	No	N/A
Polyols (sugar alcohols)	No	No	N/A
Grapefruit	No	No	N/A
Sorbic Acid (E200, E203)	No	No	N/A
Any other Preservatives	No	No	N/A
Ethanol	No	No	N/A
Honey	No	No	N/A
Lactose	No	No	N/A
Yeast and Yeast Derivatives	No	No	N/A
All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.)	No	No	N/A
Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)	No	No	N/A

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### Statements

Confirmation of BSE / TSE Status  This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathies (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE.	Yes
This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.	Yes
Confirmation of GM Status  This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under current regulations.	Yes
Confirmation of Non-Irradiation Status  This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives.	Yes
Confirmation of Nandrolone Status  This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.	Yes
Confirmation of IOC Product Status  This is to certify that this product, whole or in part, has not come into contact with any product/s, which is banned by the IOC (International Olympics Committee) and or WADA.	Yes
Confirmation of Animal Testing Status  This is to certify that all the products sold by Cambridge Commodities have not been tested on animals in any part of its manufacture in accordance with current regulations.	Yes
Confirmation of Pesticides Status  This is to certify that the above-mentioned product complies with the EU max residue limits (MRLs) on pesticides.	Yes
Confirmation of Nanoparticles Status  This is to certify that unless otherwise stated, the above-mentioned product is free of nanoparticles.  Commission Recommendation, defines as follows: "Nanomaterial" means a natural, incidental or manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm - 100 nm".	Yes
Packaging Status We hereby certify that the packaging used in the above-mentioned material conforms to EU regulations and subsequent amendments on food grade packaging	Yes
Confirmation of PAH status This is to certify that the above-mentioned product complies with the max PAH limits set by the EU regulations	Yes

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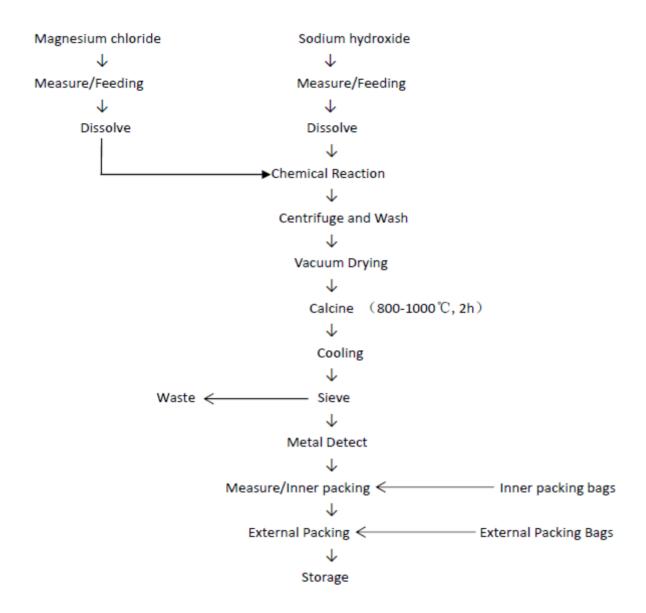








### **Product Flow Chart**



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## Material Safety Data Sheet

To download this product's material safety data sheet, please click <u>here</u> and search for the Cambridge Commodities product code. If there is no MSDS available, please follow the onscreen instructions to request one.

The Information provided in this document is subject to change and the batch specific certificate of analysis should always be referenced.

To be used as per local legislation.

### Change History

Version	Change	Customer Notification required Yes / No
1	First Issue	N/A
2	The format has been updated and Iron (Fe) has been amended from Max	Yes
3	Changed shelf life from 3 years to minimum 3 years.	No
4	Added micro specifications and production flowchart.	No
5	Changed source from 'mineral' to 'synthetic'	Yes
	Changed Arsenic (As) requirement level from 1 ppm to 3ppm. Changed Residue on Ignition from @ 900°C (USP) Max 8.0% and @ 800°C (BP/EP) Max 5.0% to Max 5%. Updated production flow chart. Removed appearance of solution section. Reformatted allergens and additives / contaminants / dietary requirements tables. Changed odour specification from characteristic to odourless.	Yes
	Added approximate Mg value Updated allergen statement, pharmacopeia and MSDS Changed region of origin and region of origin of the manufacture to the Middle East Confirmed E. coli and Salmonella are tested for in 1g General reformat	Yes
8	Changed Salmonella specification from negative/1g to negative/25g	Yes
9	<ul> <li>Amended the following:</li> <li>Calcium (Ca) Max 1.5% to Calcium Oxide (CaO) Max 1.5%,</li> <li>Total Viable Count from Max 100cfu/g to Max 1,000 cfu/g,</li> <li>Lead (Pb) from Max 3ppm to Max 2ppm,</li> <li>Country of Origin and Country of Manufacture from Middle East to China,</li> </ul>	Yes
	Added the following information:  • Free Alkali and Soluble Substances Max. 2.0%,  • Bulk density 0.4~0.6 g/cm <sup>3,</sup> • Coliforms Max. 10 cfu/g,	

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	<ul> <li>Melting Point 2852 °C,</li> <li>Average Molecular weight 40.30,</li> <li>FEMAS information to the product name,</li> <li>Updated allergens and additives tables and production flow chart.</li> <li>Removed Soluble Substances in Water Max 2% specification.</li> <li>General reformat.</li> </ul>	Yes
10	Amended country of manufacture information which was wrong due to clerical error. Added solvents information.	Yes
11	Change specification for Ash from "Ash" to "Loss on ignition" & added "after ignition" to Assay name	Yes

# **Document Approval**

	Originator	App	prover
n / N /	Mel Lee	R.Pe.nny.Iraip	Ben Penny-Inskip
28/06/2023 19:58	Quality Administrator		Quality Specialist

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