



PRODUCT TECHNICAL DOSSIER

FERROUS GLUCONATE

Product Code:

P06040

Raw Material Full Name:

Ferrous Gluconate

Raw Material Full Botanical/Chemical/Latin/Trade Name/Synonyms:

Gluconic Acid Iron (II) salt, Hydrate(2:1:2), ferrous Gluconate dehydrate

This material is Food Grade

Limit/Range/Specification:

97.0% - 102.0%

CAS Number:

12389-15-0

EC/EINECS Number:

206-076-3

Molecular Formula for the raw material:

C₁₂H₂₆FeO₁₆

Average Molecular weight:

482.17

Solubility in Water:

Slowly soluble in water (10g/100ml,40-50°C)

Solubility in Alcohol:

Insoluble in alcohol

Particle Size:

Powder 20-80 Mesh



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78 Lancaster Way Business Park
Ely, Cambridgeshire
CB6 3NW UK

tel: +44 (0)1353 667258

fax: +44 (0)1353 667289

email: mail@c-c-l.com

web: www.c-c-l.com

Loss on Drying:

5.0% - 10.0%

Fe 3⁺:

Max 2.0%

Chloride:

Max 0.60%

Sulphate:

Max 0.1%

pH:

4.0 – 5.5

Fe Content:

11.8% - 12.5%

Country of Origin:

Europe/China

Country of Origin of the Manufacture:

Europe/China

Base Source/Start Material:

Dextrose/Corn

Origin of Product – Synthetic, Plant, Mineral, Animal, Fish or Fermented:

Synthetic

Synthetic: What are the starting materials of the synthesis and their sources?

Glucono Delta Lactone, Fe Powder

Material is:

100%

Shelf Life from Date of Manufacture:

2 Years



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Storage Conditions:

Cool and dry

Appearance:

Free Flowing Powder

Colour:

Greenish Yellow to Grey

Flavour/Taste:

Characteristic

Texture:

Powder

Odour:

Characteristic

Microbiological Test

Total Viable Count:

1,000cfu/g

Yeast & Moulds:

100cfu/g

E.Coli:

Absent 10g

Salmonella:

Absent in 25g



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Metals

**Heavy Metals:
Max 20ppm**

**Arsenic (As):
Max 2ppm**

There are no nuts in this recipe and are no nuts on site, however we cannot guarantee that the raw materials entering the site are nut free.



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INTOLERANCE DATA			
			If No please give details
Free from All Animal Products (Beef, Pork, Poultry or other)	YES		
Free from Bovine Products or Derivatives by using hormones to increase milk yield in cows	YES		
Free from Bone Meal	YES		
Free from Peanuts and Peanut Derivatives (including possible cross contamination)	YES		
Free from other Nut and Nut Derivatives	YES		
Free from Nut Derived Oil	YES		
Free from Sesame Seeds and Sesame Seed Derivatives	YES		
Free from Poppy Seeds and Poppy Seed Derivatives	YES		
Free from Sunflower Seeds and Sunflower Seeds Derivatives	YES		
Free from other Seeds and Seed Derivatives	YES		
Free from Milk and Milk Derivatives (including lactose)	YES		
Free from Egg and Egg Derivatives	YES		
Free from Cereals containing Gluten (wheat / rye / oats / barley/ spelt/ kamut or their hybridised strains) and Derivatives	YES		
Free from Soya and Soya Derivatives	YES		
Free from Maize and Maize Derivatives	YES		
Free from Corn and Corn Derivatives		NO	Ingredient Used Corn
Free from Lupin and Lupin Derivatives	YES		
Free from Yeast and Yeast Derivatives	YES		
Free from Cotton Seeds (Flour) and Cotton Seed Derivatives	YES		
Free from Rice and Rice Derivatives	YES		
Free from Mustard and Mustard Derivatives	YES		
Free from Celery or Celery Derivatives	YES		
Free from Celeriac or Celeriac Derivatives	YES		
Free from Fruit and Fruit Derivatives	YES		
Free from Vegetable and Vegetable Derivatives	YES		
Free from Carrot and Carrot Derivatives	YES		
Free from Legumes / Pulses	YES		
Free from Fish and Fish Derivatives	YES		
Free from Crustaceans / Molluscs and their Derivatives	YES		
Free from Additives	YES		
Free from Added Salt	YES		
Free from Added Sugar	YES		
Free from Antioxidants	YES		
Free from Artificial Glutamates	YES		
Free from Aspartame	YES		
Free from Azo and Coal Tar Dyes	YES		
Free from Benzoates (E210 / E219)	YES		
Free from BHA / BHT (E320 / E321)	YES		
Free from Caffeine	YES		
Free from Cinnamon	YES		
Free from Cocoa	YES		
Free from Colours (Artificial / Nature Identical / Natural / Smoked)	YES		
Free from Dextrose	YES		
Free from Dioxins	YES		
Free from Ethanol	YES		



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INTOLERANCE DATA			If No please give details
Free from Ethylene Oxide	YES		
Free from Flavourings (Artificial / Nature Identical / Natural / Smoked)	YES		
Free from Garlic	YES		
Free from Gelatine	YES		
Free from Glutamates (E620 to E625)	YES		
Free from Histamine	YES		
Free from Hickory	YES		
Free from Honey	YES		
Free from Lactose	YES		
Free from Latex	YES		
Free from MSG (Added and Naturally Occurring E621)	YES		
Free from Nucleotides (E627, E630, E631, E635)	YES		
Free from Polyols	YES		
Free from Preservatives	YES		
Free from Starch Products (Including Maltodextrin)	YES		
Free from Sorbic Acid (E200, E203)	YES		
Free from Sulphur Dioxide and Sulphites at levels above 10mg/kg or 10mg/litre expressed as SO ²	YES		
Free from Sulphites (E220, E228)	YES		
Free from Sweeteners	YES		
Free from Vannillin	YES		
Suitable for Diabetics	YES		
Suitable for Coeliacs	YES		
Suitable for Ovo-Lacto Vegetarians	YES		
Suitable for Vegans	YES		
Kosher Certified		NO	Not Certified
Halal Certified		NO	Not Certified



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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.

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.

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 regulations 1829/2003/EC and 1830/2003/EC.

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 1999/2/EC and 1000/3/EC.

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.

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).

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 regulation 86/609/EEC.

CONFIRMATION OF PESTICIDES STATUS

This is to certify that the above-mentioned product complies with the regulation (EC) No.396/2005 of 23rd February 2005 and commission Regulation (EU) No. 559/2011 of 7th June 2011 amending annexes II and III of the above Regulation.



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MATERIAL SAFETY DATA SHEET

Section 1 Description

Product Name: FERROUS GLUCONATE
Product Code: P06040
Supplier: Cambridge Commodities Limited
78 Lancaster Way, Ely, Cambridgeshire, CB6 3NW.
Tel: 01353 667258. Email: mail@c-c-l.com

Section 2 Ingredients/Identity Information

<u>Components</u>	<u>% in Product</u>	<u>CAS Number</u>	<u>Formula</u>	<u>EINECS Number</u>
Ferrous Gluconate	100	12389-15-0	C ₁₂ H ₂₆ FeO ₁₆	206-076-3

Section 3 Hazards identification

Potential Acute Health Effects Hazardous in case of ingestion. Slightly Hazardous in case of skin contact (irritant), of Eye contact (irritant) and of inhalation.

Potential Chronic Health Effects Carcinogenic effects: Not available. Mutagenic effects: Not Available Tetratogenic effects: Not Available. Developmental toxicity: Not available. Repeated or prolonged Exposure is not known to aggravate medical conditions.

Section 4 Emergency and First Aid Procedures

Eyes Immediately flush eyes with running water for at least fifteen minutes, keeping eyelids open. Cold water may be used

Skin After Contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds crevices, creases and groin. Cold water may be used.

Swallowing Wash out mouth and drink water if conscious. Never give anything by mouth to an unconscious person. Seek medical attention if irritation persists.

Inhalation Remove to fresh air. If breathing is difficult, administer oxygen.



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Section 5 Fire and Hazard Data

Flammability of the Product:	May be combustible at high temperature.
Auto ignition Temperature:	Not Available
Flash Points:	Not available
Products of combustion:	These products are carbon oxides (CO, CO ₂). Some Metallic oxides
Fire Hazards in the presence of various substances	Not Available.
Fire and Explosion Hazards	Risks of explosion of the product in the presence of mechanical impact: Not available. Risk of explosion of the product in the presence of static discharge: Not Available
Fire fighting media and instructions.	Small fire : use DRY chemical powder. Large Fire: use water spray, fog or foam. Do NOT use water jet.
Special remarks on fire hazard:	Not Available
Special Remarks on explosion hazards	Not Available

Section 6 Accidental release measures

Small Spill:	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning up by spreading water on the contaminated surface and dispose of according to the local and regional authority requirements.
Large spill:	Use a shovel to put the material into a convenient waste disposal container . finish cleaning up by spreading water onto the contaminated surface and allow to evacuate through the sanitary system. Be careful that the Product is not present at a concentration level above TLV. Check TLV on the MSDS and with the local authority.



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Section 7 Storage

Precautions

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk. Evaporate the residue under a fume hood. Ground all equipment maintain material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label.

Storage

Keep container dry. Keep in a cool, well ventilated place. Ground all equipment containing material. Keep container tightly closed. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8 Control Methods/Personal Protection

Engineering Measures

use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below the recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits

Personal Protection

Safety glasses. Lab coats. Dust respirators. Be sure to use and approved Certified respirator or equivalent. Gloves.

Personal Protection In case Large spills

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product

Exposure Limits

TWA: 1 CEIL 2 (mg/m³) Consult local authorities for acceptable limits.



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Section 9 Physical and Chemical Properties

Physical state	Powder
Colour	Greenish yellow - Grey
Odour	Characteristic

Section 10 Stability and Reactivity

Chemical Stability	Stable under conditions mentioned in section 7. May decompose when exposed to light.
Instability Temperature	Not Available.
Conditions of instability	Not Available.
Incompatibility with Various substances	Not available
Corrosivity	Non corrosive in the presence of glass.
Special remarks on reactivity	Not available
Special remarks on Corrosivity	Not available
Polymerization	No

Section 11 Toxicological Information

Routes of Entry	Ingestion
Toxicity to animals:	acute oral toxicity(LD50):2100mg/kg(guinea pig)
Chronic effects on humans	Not Available.
Other toxic effects on humans:	Hazardous in case of ingestion. Slightly hazardous in case of skin contact(irritant), of inhalation
Special remarks on toxicity To animals	Not available
Special Remarks on chronic Effects on humans	Not available
Special remarks on other toxic Effects on humans.	Not available.



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Section 12 Ecological Information

Eco-toxicity	No Data Available
BOD5 and COD	Not Available
Products of Biodegradation	possibly hazardous short term degradation products are not likely; however, long term degradation products may arise.
Toxity of the products of biodegradation	The products of degradation are more toxic.
Special Remarks on the products of Biodegradation.	Not Available.

Section 13 Disposal Considerations

Waste from residues	Dispose of in accordance with all applicable local and national regulations.
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Section 14 Transport Information

Transport classification	Not classified as dangerous for any mode of UK or International transport.
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Section 15 Regulatory Information

Federal and state Regulations: TSCA 8(b) Inventory: Ferrous Gluconate dehydrate.

Other regulations Not Available

WHMIS: Not controlled under WHIMS

DSCL (EEC) This product is not classified according to the EU regulations.

Reviews, Standards and Regulations Health & Safety at work act 1974.
COSHH Regulations (1994).
EH40 Occupational exposure limits.



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Section 16 Other Information

This advice is given by Cambridge Commodities Ltd who accept no legal liability for it. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Individuals working with chemicals should consider all chemicals to be potentially hazardous even if their individual hazards may be uncharacterised or unknown.

We confirm that the information above is sourced from the original manufacturers/suppliers Specification

To be used as per local legislation

Version No: 0



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