



PRODUCT TECHNICAL DOSSIER

FERROUS SULPHATE 7 HYDRATE FCC

Product Code:

P06042

Raw Material Full Name:

FERROUS SULPHATE 7 HYDRATE

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

FERROUS SULPHATE HEPTAHYDRATE, Iron (II) Sulphate-7-Hydrate, IRON (II) SULPHATE (1:1) HEPTAHYDRATE

This material is Food Grade

Limit/Range/Specification:

99.5 – 104.5 %

CAS Number:

7782-63-0

EC/EINECS Number:

231-753-5

Molecular Formula for the raw material:

FeSO₄.7H₂O

Average Molecular weight:

278.02

Solubility in Water:

1g dissolves in 1.5mL of water

pH

A 1:10 aqueous solution has a pH of about 3.7.

Country of Origin:

India

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

Synthetic





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Ely, Cambridgeshire
CB6 3NW UK
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email: mail@c-c-l.com
web: www.c-c-l.com

Material is:

100%

Compound Ingredients:

None

Identification:

To comply with tests for iron and sulphate

Shelf Life from Date of Manufacture:

3 years from date of manufacture

Storage Conditions:

Store in a tightly sealed bag/container and to be kept in a cool place away from moisture and direct sunlight.

Appearance:

Crystals / granules

Colour:

Light green, crystalline powder or bluish-green crystals.

Metals

Pb

Max 2 ppm

Hg

Max 0.1 ppm

Cd

Max 1 ppm

As

Max 1 ppm

Pharmacopeia Standard Used:

FCC

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.



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	YES		
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.





MATERIAL SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

PRODUCT NAME: FERROUS SULPHATE HEPTAHYDRATE

PRODUCT CODE: P06042

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

1.1. Product identifier

Product name: FERROUS SULPHATE HEPTAHYDRATE
CAS number: 7782-63-0
EINECS number: 231-753-5
Index number: 026-003-01-4
Product code: U
Synonyms: IRON (II) SULPHATE (1:1) HEPTAHYDRATE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315

Classification under CHIP: Xn: R22; Xi: R36/38

Most important adverse effects: Harmful if swallowed. Causes serious eye irritation. Causes skin irritation.

2.2. Label elements

Label elements under CLP:

Hazard statements:

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

H315: Causes skin irritation.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark





2.3. Other hazards

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: FERROUS SULPHATE HEPTAHYDRATE

CAS number: 7782-63-0

EINECS number: 231-753-5

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe eye with running water for 15 min. Seek medical attention if irritation or symptoms persist.

Ingestion: Wash out mouth with water. If symptoms persist, seek medical attention.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Seek medical attention if symptoms persist.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: May be harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Not flammable.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

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Environmental precautions: Do not discharge into drains or rivers. Advise local authorities if large quantities are spilled.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Safety glasses with side-shields.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Crystals

Colour: Green-blue

Odour: Odourless

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Soluble

Melting point/range °C: 56.6 **Relative density:** 0.8-1.2 g/cm³





9.2. Other information

Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid: Heat. Light. Moist air.

10.5. Incompatible materials

Materials to avoid: Oxidising agents.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of sulphur oxides.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route Species Test Value Units

ORAL MUS LD50 1.52 mg/kg

ORAL RAT LD50 319 mg/kg

Intravenous MUS LD50 65 mg/kg

Relevant hazards for substance:

Hazard Route Basis

Acute toxicity (ac. tox. 4) ING Based on test data

Skin corrosion/irritation DRM Based on test data

Serious eye damage/irritation OPT Based on test data

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: May be harmful if swallowed.

Section 12: Ecological information

12.1. Toxicity

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Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Arrange for collection by specialised disposal company.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Section 16: Other information

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

R22: Harmful if swallowed.

R36/38: Irritating to eyes and skin.

Legend to abbreviations:

PNEC = predicted no effect level

DNEL = derived no effect level





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LD50 = median lethal dose
EC50 = median effective concentration
dw = dry weight
cc = closed cup
MUS = mouse
RBT = rabbit
HMN = human
PGN = pigeon
SCU = subcutaneous
DRM = dermal
PCP = phycico-chemical properties

LC50 = median lethal concentration
IC50 = median inhibitory concentration
bw = body weight
oc = open cup
GPG = guinea pig
HAM = hamster
MAM = mammal
IVN = intravenous
SKN = skin
OCC = ocular/corneal

This advice is given by Cambridge Commodities Ltd who accepts 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.

This 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

QA Approval

Date: 03 Feb 2015

Signature:

Checked By: C Gladwin

