



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: wbcil@wbcil.com

Website: www.wbcil.com

Section 1 - Chemical Product and Company Identification

MSDS Name: Ferric Carboxymaltose

Product Code : FCM2525

Company Identification:

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Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	Molecular Weight	Molecular Formula
Ferric Carboxymaltose	9007-72-1	788.4 g/mol	C ₂₄ H ₄₄ FeO ₂₅ ⁻

Section 3 - Hazards Identification

POTENTIAL ACUTE HEALTH EFFECTS	:	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
POTENTIAL CHRONIC HEALTH EFFECTS	:	Hazardous in case of skin contact (irritant).
CARCINOGENIC EFFECTS	:	No data available.
MUTAGENIC EFFECTS	:	No data available.
TERATOGENIC EFFECTS	:	No data available.
DEVELOPMENTAL TOXICITY	:	No data available.

Health	1
Flammability	0
Physical Hazard	0
Personal protection	E

Activ
Globe





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Section 3 - Hazards Identification

H315 (100%)	:	CAUSES SKIN IRRITATION
H319 (100%)	:	CAUSES SERIOUS EYE IRRITATION
H335 (50%)	:	MAY CAUSE RESPIRATORY IRRITATION. RESPIRATORY TRACT IRRITATION
H361 (100%)	:	SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD
H373 (100%)	:	MAY CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE

P203, P260, P261, P264, P264+P265, P271, P280, P302+P352, P304+P340, P305+P351+P338, P318, P319, P321, P332+P317, P337+P317, P362+P364, P403+P233, P405, and P501

Skin Irrit. 2 (100%)

Eye Irrit. 2 (100%)

STOT SE 3 (50%)

Repr. 2 (100%)

STOT RE 2 (100%)

Section 4 - First Aid Measures

GENERAL ADVICE	:	Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell (show the label where possible).
IF INHALED	:	When symptoms occur: Go into open air and ventilate suspected area. Seek medical attention.
SKIN CONTACT	:	Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Seek medical attention.
EYE CONTACT	:	Rinse thoroughly with plenty of water for 15 minutes and consult a physician.
IF SWALLOWED	:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.





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Section 5 - Fire-Fighting Measures

SUITABLE EXTINGUISHING MEDIA	:	Water spray, dry chemical, foam, Carbondioxide.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	:	Carbon oxides, nitrogen oxides (NO _x), Iron oxides.
ADVICE FOR FIREFIGHTERS	:	Wear self contained breathing apparatus for fire-fighting if necessary.
FIRE EXTINGUISHING MEDIA	:	Use fire-extinguishing media appropriate to the surrounding fire SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
FURTHER INFORMATION	:	No data available.

Section 6 - Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES	:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
ENVIRONMENTAL PRECAUTIONS	:	Do not let product enter drains.
METHODS AND MATERIALS FOR CONTAINMENT & CLEANING UP	:	Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

PRECAUTIONS FOR SAFE HANDLING	:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES	:	Store in original container. Store in a dry, well-ventilated place. Comply with applicable regulations.





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Section 8 - Exposure Controls / Personal Protection

APPROPRIATE ENGINEERING CONTROLS	:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
EYE/FACE PROTECTION	:	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
SKIN PROTECTION	:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
BODY PROTECTION	:	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the amount of the dangerous substance at the specific workplace.
EXPOSURE LIMITS	:	TWA: 1 STEL: 2 (mg(Fe)/m) [United Kingdom (UK)] TWA: 1 (mg(Fe)/m) from MSHA standard. Consult local authorities for acceptable exposure limits.

Section 9 - Physical and Chemical Properties

Appearance form	:	Powder.
Color	:	Brown to deep brown.
Odour	:	No data available
Solubility	:	Soluble in water, insoluble in organic solvents.
Molecular Weight	:	788.4 g/mol
pH	:	5.0 - 7.0
Other safety information	:	No data available





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Section 10 - Stability and Reactivity

Stability	:	Stable under ordinary conditions of use and storage. Reduced to ferrous salt by exposure to light. Very deliquescent; forms a solution on prolonged exposure to air.
Hazardous Decomposition Products	:	Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.
Hazardous Polymerization Incompatibilities	:	Iodides, Acacia preparation and tannins.
Conditions to avoid	:	Heat, Light, moisture.

Section 11 - Toxicological Information

Acute Toxicity	:	LD50 (oral): > 2,000 mg/kg body weight (rat, non-lethal at tested dose levels). LD50 (intravenous): No mortality at doses up to 200 mg/kg body weight (rat). Skin Irritation: Ferric Carboxymaltose is not classified as a skin irritant. Minimal irritation may occur with prolonged exposure or at high concentrations. Eye Irritation: Slight irritation has been observed in animal models but no significant damage or corrosivity to eye tissue. Inhalation: Exposure through inhalation is unlikely under normal conditions of use. Inhalation of fine particles may cause mild respiratory irritation, but no significant acute toxicity has been recorded.
Skin corrosion/inhalation	:	No Data Available
Serious eye damage/eye irritation	:	No Data Available
Respiratory or skin sensitization	:	No Data Available
Germ Cell Mutagenicity	:	No Data Available





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Section 11 - Toxicological Information	
LD50 Oral	: Not less than 500 mg of iron per kg of body weight.
Carcinogenicity	: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Sign & Symptoms of Exposure	: Overdose of iron compounds may have a corrosive effect on the gastrointestinal mucosa and be followed by necrosis, perforation, and stricture formation. Several hours may elapse before symptoms that can include epigastric pain, diarrhea, vomiting, nausea, and hematemesis occur. After apparent recovery a person may experience metabolic acidosis, convulsions, and coma hours or days later. Further complications may develop leading to acute liver necrosis that can result in death due to hepatic coma. Not less than 500 mg of iron per kg of body weight.
LD50 Oral	: Not less than 500 mg of iron per kg of body weight.
Subchronic and Chronic Toxicity:	: NOAEL (rats): 30 mg/kg/day (13-week intravenous study). NOAEL (dogs): 40 mg/kg/day (13-week intravenous study).

Section 12 - Ecological Information	
ROUTES OF ENTRY	: Inhalation, Ingestion.
ENVIRONMENTAL TOXICITY	: This material is expected to be slightly toxic to aquatic life.
PERSISTANCE & DEGRADABILITY	: No data available.
TOXICITY OF THE PRODUCTS OF BIODEGRADATION	: No data available.
SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION.	: Not Available
SPECIAL REMARKS ON THE TOXICITY OF ANIMALS	: Lethal Dose/Conc: LD [Rat] - Route: Oral; Dose: >2000 mg/kg
Ecotoxicity	: Aquatic Toxicity: Fish (LC50, 96-hour): > 100 mg/L (based on similar iron complexes, ferric carboxymaltose is expected to have low acute toxicity to fish). Daphnia magna (EC50, 48-hour): > 100 mg/L (low toxicity observed in aquatic invertebrates). Algae (IC50, 72-hour): No data available; expected to be non-toxic based on iron complex chemistry.





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Section 13 - Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14 - Transport Information

DOT Classification	:	Not a DOT controlled material.
Air transport Goods	:	Nonhazardous/non dangerous as per IATA DGR.
Special Provision for Transport	:	Not applicable
ADR/RID	:	Not dangerous goods
IMDG:	:	Not dangerous goods
IATA:	:	Not dangerous goods
DOT (Pictograms)		

This is NON DGR and NON HAZARDOUS items as per current IATA DGR.

Section 15 - Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

For this product a chemical safety assessment was not carried out.





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Section 16 - Other Information

Disclaimer: This material safety data sheet is provided as an information resource only. WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

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