



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

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

Email: [webcil@wbcil.com](mailto:webcil@wbcil.com)

Website: [www.wbcil.com](http://www.wbcil.com)

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Iron Isomaltoside

**Product Code:** IIM2525

**Company Identification:**

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## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt
Iron Isomaltoside	9004-66-4	100

## Section 3 - Hazards Identification

APPEARANCE	:	Deep brown colored free flowing powder.
CAUTION	:	No information available
TARGET ORGANS	:	No information available
POTENTIAL HEALTH EFFECT (EYE, SKIN & INHALATION)	:	No information available
CHRONIC EXPOSURE	:	No known significant effects or critical hazards

## Section 4 - First Aid Measures

EYES	:	Flush eyes with plenty of water and get medical aid.
INGESTION	:	May cause gastric irritation and other problems.
SKIN CONTACT	:	May cause irritation to skin.
NOTE TO PHYSICIAN	:	No information available.
ANTIDOTE	:	Not available.





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### Section 5 - Fire-Fighting Measures

GENERAL INFORMATION	:	No information available.
EXTINGUISHING MEDIA	:	No information available.
AUTO IGNITION TEMPERATURE	:	No information available.
FLASH POINT	:	No information available.
N.E.P.A RATING	:	No information available.
EXPLOSION LIMITS, LOWER	:	No information available.
UPPER EXPLOSION LIMITS	:	No information available.

### Section 6 - Accidental Release Measures

GENERAL INFORMATION	:	No information available.
SPILLS/ LEAKS	:	Sweep up, then place into suitable container for disposal.

### Section 7 - Handling and Storage

<b>Handling</b>	:	Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure.
<b>Storage</b>	:	Store in a tightly closed container in a dry, well ventilated place.





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## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:**

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:**

Not available.

## Section 9 - Physical and Chemical Properties

Physical State/Appearance	:	Powder
Color	:	Brown to deep brown powder
Odor	:	No information available.
Solubility in Water	:	Highly soluble in water
Vapour Pressure at 35°C	:	Not available.
Vapour Density ( Air = 1 )	:	Not available.
Specific Gravity (Water = 1 )	:	Not available.
Boiling Point/Range	:	Not available.
Melting /Freezing point	:	Not available.
Other information	:	Not available.





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## Section 10 - Stability and Reactivity

Stability	:	The product is stable at normal conditions.
Instability Temperature	:	Not available
Conditions of Instability	:	Not available
Incompatibility with various substances	:	Not available
Disposal Considerations	:	Dispose in accordance with all applicable regulations or neutralize with water.

## Section 11 - Toxicological Information

**Routes of Entry:** Inhalation. Ingestion.

**Toxicity to Animals:** Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** No information available.

### Acute Toxicity

- **Oral LD<sub>50</sub> (rat):** > 2000 mg/kg (no observed lethal dose in rats at high concentrations)
- **Dermal LD<sub>50</sub> (rabbit):** No significant effects observed at 2000 mg/kg
- **Inhalation LC<sub>50</sub> (rat):** Not established

### Skin and Eye Irritation

- **Skin Irritation (rabbit):** Mildly irritating (no significant damage after 24-48 hours)
- **Eye Irritation (rabbit):** Mild irritation with slight redness and swelling observed; however, effects were reversible within 72 hours.

### Sensitization

- **Skin Sensitization (guinea pig):** Negative (no sensitization observed in the maximization test)
- **Respiratory Sensitization:** Not established

### Chronic Toxicity

- **Sub-chronic Toxicity (rat, 90-day):** No significant adverse effects observed up to a dose of 200 mg/kg/day
- **Target Organs:** Liver and kidneys (iron overload in chronic exposure)





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- **Toxicokinetics:** In cases of overdose, iron is predominantly stored in the liver, spleen, and bone marrow. Chronic iron overload can lead to organ damage, particularly hepatotoxicity and nephrotoxicity.

#### Genotoxicity

- **Ames Test (Salmonella typhimurium):** Negative (no mutagenic effects observed)
- **Chromosomal Aberration Assay (Chinese hamster ovary cells):** Negative (no significant chromosomal aberrations observed)

#### Carcinogenicity

- **Carcinogenicity:** No evidence of carcinogenic effects in long-term animal studies (based on available data from similar iron compounds)
- **IARC Classification:** Not classified as a carcinogen

#### Reproductive Toxicity

- **Reproductive/Developmental Toxicity (rat):** No effects observed at doses up to 100 mg/kg/day
- **Teratogenicity:** No teratogenic effects observed in pregnant rats exposed to iron isomaltoside

## Section 12 - Ecological Information

**Ecotoxicity:** Not 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.

#### Aquatic Toxicity:

**Fish (96 h, LC<sub>50</sub>, Rainbow Trout):** > 100 mg/L

**Daphnia (48 h, EC<sub>50</sub>, Daphnia magna):** > 100 mg/L

**Algae (72 h, EC<sub>50</sub>, Pseudokirchneriella subcapitata):** > 100 mg/L

#### Persistence and Degradability:

**Biodegradability:** Low, as the iron core is inorganic and the polysaccharide component is partially





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biodegradable.

**Bioaccumulation:**

**Potential:** Low, but excessive iron in ecosystems may cause bioaccumulation in sediments.

**Soil Mobility:**

**Mobility:** Low, iron is largely immobile in soil due to its tendency to form insoluble compounds.

**Environmental Impact:**

Excessive iron concentrations can alter water quality, leading to algal blooms and oxygen depletion in aquatic systems.

**Disposal:**

**Waste:** Dispose in accordance with local environmental regulations; prevent release into water systems.

**Toxicity of the Products of Biodegradation:** No information available.

**Special Remarks on the Products of Biodegradation:** Not available.

### Section 13 - Disposal Considerations

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Section 14 - Transport Information

D O T Classification	:	Not a DOT controlled material
Air transport Goods	:	Nonhazardous/non dangerous as per IATA DGR.
Special Provision for Transport	:	Not applicable
IATA Specification	:	Non-dangerous, non-hazardous





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**DOT (Pictograms)**

AS PER IATA REGULATION SAFE FOR CARRAGE, NON-HAZARDOUS AND NON-RESTRICTED.

NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED.

THIS IS NOT REGULATED AS PER IATA REGULATION



**Section 15 - Regulatory Information**

US REGULATIONS : T.S.C.A INVENTORY STATUS T.S.C.A 12 (b) EXPORT NOTIFICATION S.A.R.A HAZARD CATEGORIES, S.A.R.A sections 311/312	:	No information available No information available
( 40 CFR 370.21) Acute	:	No information available
FRE REACTIVE SUDDEN RELEASE EUROPEAN REGULATIONS ECNECS OTHER INFORMATION CLEAN AIR ACT	:	No information available No information available No information available No information available. Not Assigned No This material does not contain any hazardous air pollutants.
CLEAN WATER ACT  CWA	:	None of the material in this product are listed as hazardous. None of the material in this product are listed as toxic pollutants under the CWA.





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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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