



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

Product Name: Iron Sucrose
Company Identification: IRS4580
WEST BENGAL CHEMICAL INDUSTRIES LIMITED
145/1, Jessore Road, Lake Town,
Kolkata – 700 089, India.
Phone: +91 33 4025 1700 Fax: +91 33 2574 7410
Website: www.wbcil.com Email: wbcil@wbcil.com
Emergency Telephone No.: +91 9874356081

Section 2 - Composition / Information on Ingredients

Chemical Name	:	Iron Sucrose
Molecular Formula	:	$C_{18}H_{24}Fe_2O_{24}$
Molecular Weight	:	736.06 g/mol
CAS Number	:	8047-67-4

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	:	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
Carcinogenic Effects	:	Not Available
Mutagenic Effects	:	Not Available
Teratogenic Effects	:	Not Available
Developmental Toxicity	:	Not Available

Section 3 - Label Elements

Hazard statements	
H 315	Causes skin irritation.
H 319	Causes serious eye irritation.
H 335	May cause respiratory irritation.
Hazard pictograms: GHS07: Exclamation mark	
Precautionary statements	
P 261	Avoid breathing dust /fume /gas /mist /vapors /spray.
P 305 + P 351 + P 338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280:	Wear gloves/protective clothing/eye protection/face protection





Section 3 - Label Elements

Signal words : Warning

P312:	Call a POISON CENTER/doctor//if you feel unwell
P304+340:	IF INHALED: Move to fresh air and keep comfortable for breathing.
P302+352:	IF ON SKIN: Wash with plenty of water.
PBT:	This product is not identified as PBT/vPvB substance.

Section 4 - First Aid Measures

General advice	:	Consult a physician. Show this safety data sheet to the doctor.
If inhaled	:	If breathed in, move person into fresh air. If not breathing give artificial respiration.
In case of skin & eye contact	:	In case of eye, rinse with plenty of water, and in case of skin, wash with plenty of soap and water.
If swallowed	:	Never give anything by mouth to an unconscious person. Rinse Mouth with water.

Consult a p
attendance

Section 5 - Fire-Fighting Measures

Flammability of the Product	:	Non-flammable.
Auto-Ignition Temperature	:	Not applicable.
Flash Points	:	Not applicable.
Flammable Limits	:	Not applicable.
Products of Combustion	:	Not available.
Fire Hazards in Presence of Various Substances	:	Not applicable.
Explosion Hazards in Presence of Various Substances	:	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	:	Wear a self-contained breathing apparatus and chemical protective clothing.
Special Remarks on Fire Hazards	:	Toxic fumes.
Special Remarks on Explosion Hazards	:	Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.





Section 6 - Accidental Release Measures

Personal precautions : Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

Environmental precautions : Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

Methods and materials for containment and cleaning up : Not Available

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7 - Handling and Storage

Precautions: Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

Storage: Storage temperature store at 10°C - 25°C, Storage condition close container well Storage Requirements Keep away from incompatible substances. Store in a cool, dry, well-ventilated area away from incompatible substances.

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 : TWA: 1 (mg/m³) from ACG IH Consult local authorities for acceptable exposure limits.





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

Website: www.wbcil.com

Section 9 - Physical and Chemical Properties

Appearance	:	Powder
Odor	:	Not available.
Taste	:	Not available.
Color	:	Deep Brown
Solubility	:	Soluble in warm Water
Specific Gravity	:	Not available
Vapour Pressure (mm Hg)	:	Not applicable
Vapour Density (Air = 1)	:	Not available
Boiling point	:	100 °C (212 °F)
Specific gravity	:	Approx. 1.15
Molecular Weight	:	736.06 g/mol
pH	:	9.5 – 11.5

Section 10 - Stability and Reactivity

Stability	:	The product is stable under normal conditions.
Incompatibilities with other material	:	Acids, strong oxidizers.
Hazardous Polymerization	:	Carbon dioxide (CO ₂), carbon monoxide.
Corrosivity	:	Non-corrosive in presence of glass.





Section 11 - Toxicological Information

Routes of Entry	:	Inhalation. Ingestion.
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.
LD50 Oral Rat	:	90000 mg/kg
LD50 Dermal Rabbit	:	1350 mg/kg
LC50 Fish	:	1 45.4 mg/l (Exposure time: 96 h - Species: <i>Oncorhynchus mykiss</i> [static])
Special Remarks on Chronic Effects on Humans	:	Not available
Special Remarks on other Toxic Effects on Humans	:	Skin: Contact may cause irritation or rash, particularly with moist skin. Eyes: Dust may cause irritation (abrasion) by mechanical action and cause redness, and tearing. Inhalation: Inhalation high concentrations of dust may cause nasal or lung irritation. Ingestion: Ingestion can produce gastrointestinal tract irritation. Can cause diarrhoea.

Section 12 - Ecological Information

Toxicity	:	Fish (LC50, 96 hours): >100 mg/L <i>Description:</i> Low acute toxicity to fish. Mortality is unlikely at concentrations up to the tested limits (OECD Test Guideline 203)
BOD5 and COD	:	Not available.
Products of Biodegradation	:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	:	The product of degradation are more toxic.
Special Remarks on the Products of Biodegradation	:	Not Available
Algae (ErC50, 72-96 hours)	:	10–100 mg/L <i>Description:</i> Moderate toxicity. Iron ions can inhibit algal growth at elevated concentrations





Crustaceans (EC50, 48 hours)	: >10 mg/L (<i>Daphnia magna</i>) <i>Description:</i> Low to moderate toxicity. Some immobilization may occur under specific conditions.
Biodegradability	: Not readily biodegradable.
Environmental Fate	: Iron ions precipitate as hydroxides or oxides under alkaline and oxygenated conditions, reducing their mobility and bioavailability over time
BCF (Bioconcentration Factor)	: <500 <i>Description:</i> Low potential for bioaccumulation due to effective biological regulation mechanisms
Mobility in Soil	: Iron binds to organic matter and soil particles, limiting mobility. Excessive concentrations may alter soil chemistry, affecting microbial activity and nutrient availability for plants
Potential Effects	: High iron concentrations may cause eutrophication in aquatic systems by promoting algal blooms and depleting oxygen levels. This can disrupt aquatic ecosystems





Section 13 - Disposal Considerations

Product related considerations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

Contaminated packaging

Dispose of as unused product.

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

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

Federal and State Regulations	:	TSCA 8(b) inventory: Iron Sucrose
Other Regulations	:	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
WHMIS (Canada)	:	Not controlled under WHMIS (Canada).
DSCL (EEC)	:	This product is not classified according to the EU regulations. Not applicable.
Health Hazard	:	2
Fire Hazard	:	0
Reactivity	:	0
Personal Protection	:	E
Protective Equipment	:	Gloves. Lab coat. Dust respirator. Be sure to use an approved / certified respirator or equivalent. Splash goggles.





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

Website: www.wbcil.com

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.

Issue Date: July, 2024

Revision Date: June, 2026

Revision No. : 01

