



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:** Ferric pyrophosphate (Soluble)

**Product Code :** FPPSL10

**Company Identification:**

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### Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt	Molecular formula	Molecular Wt.
Ferric Pyrophosphate (Soluble)	10058-44-3	100	Fe <sub>4</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>3</sub>	745.21 g/mol

### Section 3 - Hazards Identification

<b>INHALATION</b>	:	May cause respiratory irritation
<b>INGESTION</b>	:	May cause gastrointestinal irritation
<b>SKIN CONTACT</b>	:	May cause skin irritation
<b>EYE CONTACT</b>	:	May cause eye irritation
<b>CHRONIC EXPOSURE</b>	:	No known significant effects or critical hazards
<b>Hazard statements</b>	:	H315, H319, H335
<b>Precautionary statements</b>	:	P280+P304+P340+P305+P351+P338



Health	2
Flammability	0
Physical Hazard	0
Personal protection	E

HMIS RATINGS (0-4)





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#### Section 4 - First Aid Measures

<b>INHALATION</b>	:	Move exposed person to fresh air. If not breathing, seek immediate medical attention. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel and seek medical attention
<b>INGESTION</b>	:	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.
<b>SKIN CONTACT</b>	:	Remove contaminated clothing and shoes and immediately flush skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation persists, seek medical attention.
<b>EYE CONTACT</b>	:	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

#### Section 5 - Fire-Fighting Measures

<b>HAZARDOUS COMBUSTION PRODUCTS</b>	:	Decomposition products may include oxides of carbon and iron.
<b>FIRE</b>	:	Not considered a fire hazard.
<b>EXPLOSION</b>	:	Not considered an explosion hazard.
<b>FIRE EXTINGUISHING MEDIA</b>	:	Use fire-extinguishing media appropriate to the surrounding fire
<b>SPECIAL INFORMATION</b>	:	In the event of a fire, wear full protective clothing and NIOSH- approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.

#### Section 6 - Accidental Release Measures

<b>SPILL CONTROL &amp; RECOVERY</b>	:	Wear appropriate personal protective equipment as specified in Section 8. Clean up spills in a manner that does not disperse dust into the air. Reduce airborne dust and prevent scattering by moistening with water. Pick up
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### Section 6 - Accidental Release Measures

	:	spill for recovery or disposal and place in a closed container
<b>DISPOSAL</b>	:	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

### Section 7 - Handling and Storage

<b>HANDLING</b>	:	Avoid contact with eyes. Avoid breathing dust. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
<b>STORAGE</b>	:	Store in accordance with local regulations. Store in original container, protected from direct sunlight. Keep container tightly closed and sealed until ready for use.

### Section 8 - Exposure Controls / Personal Protection

<b>ENGINEERING CONTROLS</b>	:	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.
<b>PERSONAL PROTECTION</b>	:	Safety glasses, Lab Coat, Dust respirator, Be sure to use an approved / certified respirator or equivalent, Gloves
<b>PERSONAL PROTECTION IN CASE OF A LARGE SPILL</b>	:	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective





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### Section 8 - Exposure Controls / Personal Protection

		clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>EXPOSURE LIMITS</b>	:	Consult local authorities for acceptable exposure limits.

### Section 9 - Physical and Chemical Properties

<b>Appearance Form</b>		
<b>Form</b>	:	Granular powder
<b>Color</b>	:	Apple green
<b>Odour</b>	:	Characteristic
<b>Melting point</b>	:	Decomposes
<b>Boiling point (°C)</b>	:	309.6°C at 760 mmHg
<b>Solubility</b>	:	Soluble in water
<b>Dissociation Constant</b>	:	22.2

### Section 10 - Stability and Reactivity

<b>Stability</b>	:	The product is stable at normal conditions.
<b>Instability Temperature</b>	:	Not available
<b>Conditions of Instability</b>	:	Not available
<b>Incompatibility with various substances</b>	:	Not available
<b>Corrosivity</b>	:	Non corrosive in presence of glass
<b>Special remarks on Reactivity</b>	:	Not available
<b>Special remarks on Corrosivity</b>	:	Not available
<b>Polymerization</b>	:	Will not occur.





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### Section 11 - Toxicological Information

<b>Routes of Entry</b>	:	Inhalation, Ingestion
<b>Toxicity to Animals</b>	:	LD50 : Not available, LC50 : Not available
<b>Chronic Effects on Humans</b>	:	Not Available
<b>Other Toxic Effects on Humans</b>	:	Not Available
<b>Special Remarks on Toxicity to Animals</b>	:	Not Available
<b>Special Remarks on Chronic Effects on Humans</b>	:	Not Available
<b>Special Remarks on other Toxic Effects on Humans</b>	:	Not Available
<b>Acute Toxicity</b>	:	Oral LD50 (rat): > 2,000 mg/kg, indicating low toxicity through ingestion.
<b>Inhalation and Dermal LD50</b>	:	No specific data available, but exposure should be minimized to avoid respiratory and skin irritation
<b>Skin Corrosion/Irritation</b>	:	Not classified as a severe skin irritant, though repeated or prolonged contact may cause minor irritation
<b>Eye Irritation</b>	:	Mild irritant; avoid contact with eyes. Flush with water if exposed
<b>Respiratory or Skin Sensitization</b>	:	No evidence of respiratory or skin sensitization from available data.
<b>Carcinogenicity</b>	:	No components of ferric pyrophosphate are listed as carcinogens by IARC, OSHA, NTP, or ACGIH





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<b>Germ Cell Mutagenicity</b>	:	No evidence of mutagenic effects from the available studies.
<b>Reproductive Toxicity</b>	:	No data indicating adverse effects on fertility or reproductive performance at typical exposure levels.
<b>STOT (Specific Target Organ Toxicity)</b>	:	Not classified as hazardous to specific organs upon short-term exposure. No significant long-term health effects identified from repeated exposure.
<b>Aspiration Hazard</b>	:	Not identified as an aspiration hazard.

### Section 12 - Ecological Information

<b>TOXICITY</b>	:	Fish (96-hour LC50): > 100 mg/L (nominal), low acute toxicity ( <i>Gobiocypris rarus</i> ) Daphnia (48-hour EC50): 2.0 mg/L, moderate sensitivity ( <i>Daphnia magna</i> )  Algae (72-hour EC50): > 100 mg/L, very low toxicity.  Microorganisms (3-hour EC50): 250 mg/L (activated sludge), minimal interference with wastewater treatment
<b>Persistence and Degradability</b>	:	Non-persistent in the environment; readily dissolves and disperses in water.
<b>Mobility in Soil and Water</b>	:	High mobility expected in aquatic environments; avoid release into water bodies.
<b>Bioaccumulate Potential</b>	:	Low bioaccumulation potential due to solubility characteristics.





<b>Environmental Precautions</b>	:	Prevent release into drains, watercourses, and soil.
<b>BOD 5 and COD</b>	:	Not Available.
<b>PRODUCTS of BIODEGRADATION</b>	:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>TOXICITY OF THE PRODUCTS OF BIODEGRADATION</b>	:	The Product itself and its products of degradation are not toxic.
<b>SPECIAL REMARKS ON THE PRODUCTS OF DEGRADATION</b>	:	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

#### 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: Liposomal Iron (Soluble)

**Other Regulations:** Not available.

**Other Classifications: WHMIS (Canada):** Not controlled under WHMIS (Canada).





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### Section 15 - Regulatory Information

**DSCL (EEC): R36/38-** Irritating to eyes and skin.  
**HMIS (U.S.A.): Health Hazard: 2**  
**Fire Hazard: 0**  
**Reactivity: 0**  
**Personal Protection: E**  
**National Fire Protection Association (U.S.A.):**  
**Health: 2**  
**Flammability: 0.**  
**Reactivity: 0**  
**Specific hazard:**  
**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

### 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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