



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

1.1 MSDS Name: Ferric Pyrophosphate Citrate

1.2 Product Code: FPPSL10

1.3 Recommended use of the chemical and restrictions on use:

Industrial and scientific research uses

1.4 Company Identification:

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Section 2 – Hazards Identification

2.1 Classification of the substance or mixture:

No data available

2.2 GHS label elements, including precautionary statements:

Pictogram(s) no data available

Signal word no data available

Hazard statement(s) no data available

Precautionary statement(s) no data available

2.3 Other hazards which do not result in classification:

No data available

2.4 Inhalation:

May cause respiratory irritation

2.5 Ingestion:

May cause gastrointestinal irritation

2.6 Skin contact:

May cause skin irritation

2.7 Eye contact:

May cause eye irritation

2.8 Chronic exposure:





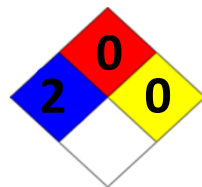
Section 2 – Hazards Identification

No known significant effects or critical hazards

2.9 Pictogram:



2.10 NFPA SCALE:



NFPA SCALE

2.11 HMIS Ratings:

Health	2
Flammability	0
Physical Hazard	0
Personal protection	E

HMIS RATINGS (0-4)

Section 3 – Composition/Information on Ingredients

3.1 Ingredient Name: Ferric Pyrophosphate citrate

3.2 CAS Number: 1802359-96-1

3.3 Molecular formula: $C_{18}H_{24}Fe_4O_{42}P_6$

3.4 Molecular weight: 1321.6 g/mol

3.5 % wt.: 100





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Section 4 - First Aid Measures

4.1. Description of first aid measures:

4.1.1 Inhalation:

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

4.1.2 Ingestion:

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

4.1.3 Skin contact:

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.

4.1.4 Eye contact:

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.

4.2 Most important symptoms/effects, acute and delayed:

no data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

no data available

Section 5 - Fire-Fighting Measures

5.1 Fire extinguishing media:

Fire-extinguishing media appropriate to the surrounding fire

5.2 Flammability of the Product:

Non-flammable.

5.3 Auto-Ignition Temperature:

Not applicable.

5.4 Flash Points:

Not applicable.

5.5 Flammable Limits:





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Section 5 - Fire-Fighting Measures

Not applicable.

5.6 Hazardous combustion products:

Decomposition products may include oxides of carbon and iron.

5.6.1 Fire:

Not considered a fire hazard.

5.6.2 Explosion:

Not considered an explosion hazard.

5.7 Special information:

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

6.1 Spill control and recovery:

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 spill for recovery or disposal and place in a closed container

6.1.1 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.

6.1.2 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. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

6.2 Disposal:

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





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Section 6 - Accidental Release Measures

disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 7 - Handling and Storage

7.1. Precautions for safe handling:

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.

7.2 Storage:

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

8.1 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.

8.2 Control parameters:

8.2.1 Occupational Exposure limit values

no data available

8.2.2 Biological limit values

no data available

8.3 Individual protection measures, such as personal protective equipment (PPE):

8.3.1 Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

8.3.2 Skin protection





Section 8 - Exposure Controls / Personal Protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

8.3.3 Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

8.3.4 Thermal hazards

no data available

8.4 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.

8.5 Exposure limits:

Consult local authorities for acceptable exposure limits.

Section 9 - Physical and Chemical Properties

Appearance	Free flowing powder
Colour	Apple green to greenish brown
Odour	Characteristic
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	309.6 °C at 760 mmHg
Flammability	No data available
Lower and upper explosion limit/flammability limit	No data available
Flash point	155.2 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available





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Section 9 - Physical and Chemical Properties

pH	No data available
Kinematic viscosity	No data available
Solubility	Freely soluble in water, insoluble in alcohol
Partition coefficient n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

Section 10 - Stability and Reactivity

10.1 Reactivity:

No data available

10.2 Stability:

The product is stable at normal conditions.

10.3 Instability Temperature:

Not available

10.4 Conditions of Instability:

Not available

10.5 Incompatibility with various substances:

Not available

10.6 Corrosivity:

Non corrosive in presence of glass

10.7 Special remarks on Reactivity:

Not available

10.8 Special remarks on Corrosivity:

Not available

10.9 Polymerization:





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Will not occur.

Section 11 - Toxicological Information

11.1 Routes of Entry:

Inhalation, Ingestion

11.2 Toxicity to Animals:

LD50: Not available, LC50: Not available

11.3 Chronic Effects on Humans:

Not Available

11.4 Other Toxic Effects on Humans:

Not Available

11.5 Special Remarks on Toxicity to Animals:

Not Available

11.6 Special Remarks on Chronic Effects on Humans:

Not Available

11.7 Special Remarks on other Toxic Effects on Humans:

Not Available

11.8 Carcinogenicity:

no data available

11.9 Reproductive toxicity:

no data available

11.10 STOT-single exposure:

no data available

11.11 STOT-repeated exposure:

no data available

11.12 Aspiration hazard:

no data available

Section 12 - Ecological Information

12.1 Ecotoxicity:

Not Available

12.2 BOD 5 and COD:





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Section 12 - Ecological Information

Not Available

12.3 Products of biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

12.4 Toxicity of the products of biodegradation:

The Product itself and its products of degradation are not toxic.

12.5 Special remarks on the products of degradation:

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

14.1 D O T Classification:

Not a DOT controlled material

14.2 Identification:

Not applicable.

14.3 Special Provision for Transport:

Not applicable

ICAO

14.1 UN-NO:

Not Regulated

14.2 Proper Shipping Name:

No information Available

14.3 Hazard Class:

No information Available





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Section 14 - Transport Information

14.4 Subsidiary Risk:

No information Available

14.5 Packing Group:

No information Available

IATA

14.1 UN-NO:

Not Regulated

14.2 Proper Shipping Name:

No information Available

14.3 Hazard Class:

No information Available

14.4 Subsidiary Risk:

No information Available

14.5 Packing Group:

No information Available

14.6 ERG Code:

No information Available

14.7 Special Provisions:

No information Available.

Section 15 - Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Ferric pyrophosphate

Other Regulations: Not available.

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

DSCL (EEC): R36/38- Irritating to eyes and skin.

HMIS (U.S.A.): Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: E





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Section 15 - Regulatory Information

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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