



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

**1.1 MSDS Name:** Ferric Citrate

**1.2 Product Code:** FEC2022

**1.3 Company Identification:**

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145/1, Jessore Road, Lake Town,

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## Section 2 - Composition / Information on Ingredients

<b>Ingredient</b>	:	Ferric Citrate
<b>Molecular Formula</b>	:	C <sub>6</sub> H <sub>6</sub> FeO <sub>7</sub>
<b>Molecular Weight</b>	:	245.95 g/mol
<b>CAS Number</b>	:	2338-05-8

## Section 3 - Hazards Identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

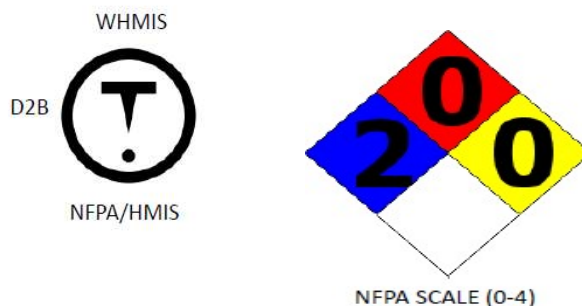
**2.4 Irritant:** Skin irritation, category 2 Eye irritation, category 2A

**2.5 Specific target organ toxicity** following single exposure, category 3

**2.6 Combustible Dust Hazard:** May form combustible dust concentrations in air (during processing).

**H315:** Causes skin irritation

**H319:** Causes serious eye irritation



<b>Health</b>	<b>1</b>
<b>Flammability</b>	<b>1</b>
<b>Physical Hazard</b>	<b>1</b>
<b>Personal Protection</b>	<b>X</b>

HMIS RATINGS (0-4)

GHS07



Irritant





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**H335:** May cause respiratory irritation

**Precautionary Statement Codes**

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

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures:

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## Section 5 - Fire-Fighting Measures

### 5.1 Extinguishing media:

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Iron oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available





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## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in ambient condition. Keep container tightly closed and well-ventilated place.

Light sensitive.

## Section 8 - Exposure Controls / Personal Protection

### 8.1 Control parameters:

Not available

### 8.2 Exposure controls:

Not available

### Appropriate engineering controls

General industrial hygiene practice.

### Personal protective equipment

#### Eye/face protection

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.

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.

#### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous





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## Section 8 - Exposure Controls / Personal Protection

substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

## Section 9 - Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance Form	
Form	: Greenish brown to brown hygroscopic powder.
Odour	: Odourless
Melting point/freezing point	: 169 – 239 °C at 1.013 hPa - OECD Test Guideline 102
Density	: 1.906 g/cm <sup>3</sup> at 20 °C - OECD Test Guideline 109
Initial boiling point and boiling range	: No data available
Water solubility	: Freely soluble in water
Decomposition temperature	: No data available

## Section 10 - Stability and Reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions-Carbon oxides, Iron oxides

Other decomposition products-No data available

In the event of fire: see section 5





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## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects:

#### Acute toxicity

LD50: 2800mg/kg (oral, rabbit)

LD50 >2000mg/kg (oral, rat)

#### Skin corrosion/irritation

No data available (Iron (III) citrate).

#### Serious eye damage/eye irritation

No data available (Iron (III) citrate).

#### Respiratory or skin sensitization

No data available (Iron (III) citrate)

#### Germ cell mutagenicity

No data available (Iron (III) citrate)

#### 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.

#### Reproductive toxicity

No data available (Iron (III) citrate)

#### Specific target organ toxicity -single exposure

No data available (Iron (III) citrate)

#### Specific target organ toxicity -repeated exposure

No data available.

## Section 12 - Ecological Information

### 12.1 Toxicity

Aquatic Vertebrate: LCO - Fundulus heteroclitus - 200 mg/l - 7 d

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available (Iron (III) citrate)

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

No data available.





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### Section 13 - Disposal Considerations

**Waste treatment methods**


**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

### Section 14 - Transport Information

DOT Classification	:	Not a DOT controlled material
Air transport Goods	:	Nonhazardous/nondangerous as per IATA DGR.
Special Provision for Transport	:	Not applicable
IATA Specification	:	Non-dangerous, non-hazardous
<b>DOT (Pictograms)</b> 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

**15.1 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.

**15.2 Chemical safety assessment**

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

### 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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