



WEST BENGAL CHEMICAL INDUSTRIES LIMITED  
145/1, Jessore Road, Lake Town,  
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Phone: +9133 4025 1700 Fax: +9133 2574 7410  
Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com) Website: [www.wbcil.com](http://www.wbcil.com)

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Iron (III) Hydroxide Polymaltose Complex

**Product Code:** IPC2625

**Company Identification:**

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## Section 2- Composition / Information on Ingredients

Chemical Name	:	Iron (III) Hydroxide Polymaltose Complex
Molecular Formula	:	[Fe (OH) <sub>3</sub> (H <sub>2</sub> O) <sub>1.5</sub> ] n • [(C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> ) m]x
Molecular weight	:	449.163
CAS Number	:	53858-86-9

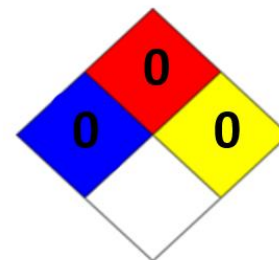
## Section 3 - Hazards Identification

### Classification of the substance or mixture

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

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

**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.



## Section 4 - First Aid Measures

### 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.

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





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## Section 4 - First Aid Measures

The most important known symptoms and effects are described in section 11

**Indication of any immediate medical attention and special treatment needed**

No data available.

## Section 5 - Fire-Fighting Measures

**Extinguishing media**

**Suitable extinguishing media**

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

**Special hazards arising from the substance or mixture**

Carbon oxides, Iron oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

No data available

## Section 6 - Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**

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

For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

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

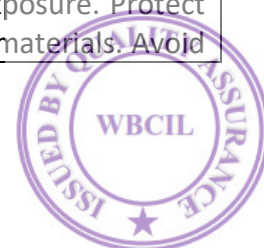
**Reference to other sections**

For disposal see section 13.

## Section 7 - Handling and Storage

**Precautions for safe handling:** For safe handling, ensure adequate ventilation in the workspace. Wash hands thoroughly after coming into contact with the material. Avoid eating, drinking, or smoking while handling it. Minimize dust and avoid inhaling dust, fumes, gases, mists, vapors, or sprays. Prevent contact with your skin, eyes, and clothing by keeping the container tightly closed and wearing appropriate personal protective equipment like waterproof boots, suitable clothing, and safety glasses. Also, avoid contact with hot surfaces.

**Conditions for safe storage, including any incompatibilities:** Store the material in a cool, dry, and well-ventilated area. Keep it in its tightly closed original container to minimize air exposure. Protect the container from heat sources, sunlight, sparks, ignition sources, and incompatible materials. Avoid





## Section 7 - Handling and Storage

contact with the material itself, including skin and eye contact, and don't breathe in any dust, mist, or vapors it might produce. To ensure safety, don't store the material near strong oxidizing agents or other incompatible materials.

## Section 8 - Exposure Controls / Personal Protection

### Control parameters

### Exposure controls

#### 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 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

Physical State	:	Amorphous powder.
Appearance	:	Brown.
Odor	:	Odorless.
Solubility in water	:	NLT 1g sample dissolved in 100 ml water.





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## Section 9 - Physical and Chemical Properties

<b>pH (2%w/v Iron Solution)</b>	:	5 to 7
<b>Vapour Pressure at 35°C</b>	:	Not Applicable.
<b>Vapour Density (Air = 1)</b>	:	Not Applicable.
<b>Specific Gravity</b>	:	Not Applicable.
<b>Boiling Point / Range</b>	:	238.00 TO 239.00
<b>Melting / Freezing Point</b>	:	Not available

## Section 10 - Stability and Reactivity

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

No data available

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

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

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Oral:** Based on available data, the classification criteria are not met

**Dermal:** No data available

**Inhalation:** No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

IARC:





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## Section 11 - Toxicological Information

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

### Specific target organ toxicity -single exposure

No data available

### Specific target organ toxicity -repeated exposure

No data available

### Aspiration hazard

No data available

### Additional Information

RTECS: Not available.

## Section 12 - Ecological Information

### 12.1. Toxicity Ecotoxicity effects

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

### 12.2. Persistence and degradability

The product includes heavy metals. Prevent release into the environment. Special pretreatment required

#### Persistence

Insoluble in water, May persist.

#### Degradation in sewage treatment plan

Contains substances known to be hazardous to the environment or not degradable in wastewater treatment plants.waste.

### 12.3. Bioaccumulative potential

May have some potential to bioaccumulation; Product has a high potential to bioconcentrate.

### 12.4. Mobility in soil

Spillage unlikely to penetrate soil Is not likely mobile in the environment due its low water solubility.

### 12.5. Results of PBT and vPvB assessment

No data available for assessment.

### 12.6. Other adverse effects

#### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

#### Persistent Organic Pollutant

This product does not contain any known or suspected substance

#### Ozone Depletion Potential

This product does not contain any known or suspected substance





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### 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

#### 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.

#### 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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Revision No.: 03

