



**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:** Ferrous Asparto Glycinate

**1.2 Product Code:** FAGSP20

**1.3 Relevant identified uses of the substance or mixture and uses advised against:**

Nutritional supplement, Iron fortification

**1.4 Company Identification:**

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## **Section 2 – Hazards Identification**

**2.1 Classification of the substance or mixture:**

Not classified as hazardous under GHS criteria

**2.2 Pictogram:**

None required

**2.3 Signal Word:**

None required

**2.4 Hazard Statements:**

H320: Causes eye irritation

H335: May cause respiratory irritation

H303: May be harmful if swallowed in large amounts

**2.5 Precautionary Statements:**

**Prevention:**

P261: Avoid breathing dust

P264: Wash hands thoroughly after handling

P280: Wear protective gloves, eye protection

**Response:**

P304 + P340: If inhaled, remove person to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

P312: Call a poison center or doctor if you feel unwell



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## Section 2 – Hazards Identification

### Storage:

P403 + P233: Store in a well-ventilated place. Keep container tightly closed

P402: Store in a dry place

### Disposal:

P501: Dispose of contents/container in accordance with local regulations

## Section 3 – Composition/Information on ingredients

**3.1 Ingredient name:** Ferrous Asparto Glycinate

**3.2 Synonym:** Ferrous aspartate glycinate, Iron (II) asparto glycinate

**3.3 Molecular formula:**  $C_6H_{10}FeN_2O_6$

**3.4 Molecular weight:** 262.00 g/mol

**3.5 %wt:** 100%

## 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.

#### 4.1.4 Eye Contact

Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

#### 4.2.1 Acute Symptoms:

Inhalation:

May cause mild respiratory irritation (coughing, sneezing).



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## **Section 4 – First Aid Measures**

**Skin Contact:**

May cause mild irritation with prolonged exposure.

**Eye Contact:**

Causes eye irritation, leading to redness, tearing, and discomfort.

**Ingestion:**

May cause nausea, vomiting, diarrhea, and abdominal discomfort in large quantities.

### **4.2.2 Delayed Symptoms**

Prolonged inhalation of dust may lead to chronic respiratory irritation.

Chronic ingestion may cause iron overload, potentially leading to liver damage.

### **4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:**

Treat symptomatically

## **Section 5 – Fire-Fighting Measures**

### **5.1 Flammability:**

Non-flammable

### **5.2 Suitable Extinguishing Media:**

Use water spray, dry chemical, carbon dioxide, or foam

### **5.3 Hazardous Combustion Products:**

Decomposition products may include oxides of carbon and iron.

### **5.4 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 Personal Precautions:**

Use personal protective equipment as per Section 8

### **6.2 Environmental Precautions:**

Prevent entry into drains, soil, or waterways

### **6.3 Methods for Cleanup:**

#### **6.3.1 Spill control & 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



## **Section 6– Accidental Release Measures**

scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container

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

## **Section 7 – Handling & Storage**

### **7.1 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 Personal Protective Equipment (PPE):**

#### **8.2.1 Eye Protection:**

Safety goggles

#### **8.2.2 Skin Protection:**

Use chemical-resistant gloves (e.g., nitrile, latex, or PVC) to prevent skin contact. Wear protective clothing (lab coat or coveralls) to minimize skin exposure.

#### **8.2.3 Respiratory Protection:**

Dust mask if airborne exposure is expected. If airborne dust levels exceed exposure limits, wear a NIOSH-approved dust respirator (N95 or P100 filter). In case of high exposure, use an air-purifying or supplied-air respirator.



## Section 8 – Exposure Controls/Personal Protection

### 8.2.4 Hygiene Measures:

Wash hands thoroughly after handling

### 8.3 Personal precaution in case of 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.

### 8.4 Exposure limits:

General dust exposure limits may apply:

OSHA PEL (Permissible Exposure Limit) for Particulates (Inhalable Dust): 15 mg/m<sup>3</sup> (TWA)

OSHA PEL for Respirable Dust: 5 mg/m<sup>3</sup> (TWA)

ACGIH TLV (Threshold Limit Value) for Particulates (Inhalable): 10 mg/m<sup>3</sup> (TWA)

ACGIH TLV for Respirable Dust: 3 mg/m<sup>3</sup> (TWA)

Consult local authorities for acceptable exposure limits.

## Section 9 – Physical and Chemical Properties

Physical State :	Solid (Powder)
Appearance :	Light brown hygroscopic powder
Odor :	Odorless
Odor Threshold :	Not available
pH (1.0% w/v solution) :	3.0 – 6.0
Melting Point/Freezing Point :	Not available
Boiling Point/Boiling Range :	Not applicable (decomposes before boiling)
Flash Point :	Not applicable (non-flammable)
Evaporation Rate :	Not applicable (solid substance)



<b>Flammability (Solid, Gas) :</b>	Non-flammable
<b>Upper/Lower Flammability or Explosive Limits :</b>	Not applicable
<b>Vapor Pressure :</b>	Not applicable (solid substance)
<b>Vapor Density :</b>	Not applicable (solid substance)
<b>Relative Density :</b>	Not available
<b>Solubility in Water :</b>	Soluble
<b>Solubility in Other Solvents :</b>	Not available
<b>Partition Coefficient (n-octanol/water) (Log K<sub>w</sub>) :</b>	Not available
<b>Auto-Ignition Temperature :</b>	Not applicable
<b>Decomposition Temperature :</b>	Not available
<b>Viscosity :</b>	Not applicable (solid substance)
<b>Explosive Properties :</b>	Not explosive
<b>Oxidizing Properties :</b>	Not an oxidizer

## **Section 10 – Stability and Reactivity**

### **10.1 Reactivity:**

No known hazardous reactions under recommended use.

### **10.2 Stability:**

The product is stable at normal conditions. Hygroscopic: absorbs moisture from the air, which may affect product integrity.

### **10.3 Instability Temperature:**



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## Section 10 – Stability and Reactivity

Not available

### 10.4 Conditions to Avoid:

Excessive heat, moisture Incompatibility with various substances

### 10.5 Incompatible Materials:

Strong oxidizing agents, strong acids or bases

### 10.6 Hazardous Decomposition Products:

Carbon oxides, iron oxides

### 10.7 Corrosivity:

Non corrosive in presence of glass.

### 10.8 Special remarks on Reactivity:

Not available

### 10.9 Special remarks on Corrosivity:

Not available

### 10.10 Polymerization:

Will not occur.

## Section 11 – Toxicological Information

### 11.1 Routes of Entry:

Inhalation, Ingestion

### 11.2 Toxicity to Animals:

No information available.

**11.3 Skin Corrosion/Irritation:** May cause mild skin irritation upon prolonged exposure. Not classified as a skin irritant under GHS criteria

**11.4 Serious Eye Damage/Irritation:** Causes eye irritation. Direct contact may cause redness, discomfort, or temporary damage

**11.5 Respiratory or Skin Sensitization:** Not expected to cause sensitization based on available data

**11.6 Germ Cell Mutagenicity:** No data available; not classified as a mutagen

### 11.7 Carcinogenicity

- **IARC (International Agency for Research on Cancer):** Not listed
- **NTP (National Toxicology Program):** Not listed



## Section 11 – Toxicological Information

- **OSHA (Occupational Safety and Health Administration):** Not listed
- **Conclusion:** Not classified as a carcinogen

**11.8 Reproductive Toxicity:** No data available. Not expected to have reproductive toxicity

**11.9 STOT (Specific Target Organ Toxicity) – Single Exposure:** May cause respiratory irritation if inhaled in large amounts

**11.10 STOT (Specific Target Organ Toxicity) – Repeated Exposure:** No known target organ toxicity from repeated exposure

**11.11 Aspiration Hazard:** Not classified as an aspiration hazard

## Section 12 – Ecological Information

**12.1 Ecotoxicity:**

Not Available

**12.2 BOD 5 and COD:**

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 Products of biodegradation:**

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

**12.5 Persistence and Degradability:**

Expected to degrade over time

**12.6 Bioaccumulative Potential:**

Low

**12.7 Mobility in Soil:**

No data available

**12.8 Results of PBT and vPvB Assessment:**

Not classified.

## Section 13 – Disposal Considerations





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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 UN Number**

Not applicable

### **14.2 UN Proper Shipping Name**

Not applicable

### **14.3 Transport Hazard Class(es)**

DOT (US): Not regulated

IATA (Air): Not regulated

IMDG (Sea): Not regulated

ADR/RID (Europe): Not regulated

### **14.4 Packing Group**

Not applicable

### **14.5 Environmental Hazards:**

Not classified as hazardous to the environment

### **14.6 Special Precautions for Users**

Ensure containers are properly secured during transportation to prevent movement or spillage. Avoid exposure to moisture during transport

### **14.7 Transport in Bulk According to Annex II of MARPOL and the IBC Code**

Not applicable

### **14.8 D O T Classification:**

Not a DOT controlled material

### **14.9 Identification:**

Not applicable.

### **14.10 Special Provision for Transport:**

Not applicable

### **14.11 IATA Classification:**

This is not dangerous and non-hazardous item as per current IATA DGR.

## **Section 15 – Regulatory Information**



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## **Section 15 – Regulatory Information**

### **15.1 Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture**

#### **United States (US) Regulations:**

TSCA (Toxic Substances Control Act): Not listed

OSHA (Occupational Safety and Health Administration): Not classified as a hazardous substance under OSHA Hazard Communication Standard (29 CFR 1910.1200)

SARA (Superfund Amendments and Reauthorization Act):

SARA 302 Extremely Hazardous Substances: Not listed

SARA 311/312 Hazard Categories: Not classified as hazardous

SARA 313 (Toxic Release Inventory - TRI): Not listed

#### **European Union (EU) Regulations**

REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals): Not listed under Annex XIV or XVII

CLP Regulation (EC 1272/2008): Not classified as hazardous

EINECS (European Inventory of Existing Chemical Substances): Not listed

#### **Canada Regulations**

DSL/NDSL (Domestic Substances List / Non-Domestic Substances List): Not listed

WHMIS Classification: Not classified as hazardous

#### **Australia Regulations**

AICS (Australian Inventory of Chemical Substances): Not listed

#### **China Regulations**

IECSC (Inventory of Existing Chemical Substances in China): Not listed

#### **Japan Regulations**

ENCS (Existing and New Chemical Substances Inventory): Not listed

#### **India Regulations**

Complies with Indian chemical regulations; no specific restrictions noted

**15.2 Chemical Safety Assessment (CSA):** A Chemical Safety Assessment has not been conducted for this product.



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## **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

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