



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

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Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: [webcil@wbcil.com](mailto:webcil@wbcil.com)

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## Section 1 - Chemical Product and Company Identification

**1.1 MSDS Name:** Magnesium Aspartate

**1.2 Product Code:** MGASP98

**1.3 Relevant uses and uses advised against (if any):**

Industrial Manufacturing. Ingredient for use in dietary supplements, food supplements, and other nutrition products, Laboratory chemicals

**1.4 Company Identification:**

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## Section 2 - Hazards Identification

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

OSHA defined hazards - Combustible Dust GHS Label Elements Pictograms: N/A Signal word: Warning

**2.1.1 Hazard classification:**

- Skin irritation (Category 2)
- Serious eye irritation (Category 2)

**2.2 Signal word:**

Warning

**2.3 Hazard statements:**

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.

**2.4 Precautionary statements:**

**Prevention:**

- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264: Wash hands thoroughly after handling.





## Section 2 - Hazards Identification

- P270: Do not eat, drink, or smoke when using this product.
- P280: Wear protective gloves, protective clothing, eye protection, and face protection.

### Response:

- P302 + P352: *If on skin*: Wash with plenty of soap and water.
- P305 + P351 + P338: *If in eyes*: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332 + P313: If skin irritation occurs: Get medical advice/attention.
- P337 + P313: If eye irritation persists: Get medical advice/attention.

### 2.5 Potential Acute Health Effects:

No data available.

### 2.6 Potential Chronic Health Effects:

#### 2.6.1 Carcinogenic effects:

Not available.

#### 2.6.2 Mutagenic effects:

Not available.

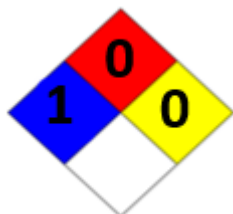
#### 2.6.3 Teratogenic effects:

Not available.

#### 2.6.4 Developmental toxicity:

Not available.

### 2.7 NFPA rating:



NFPA SCALE (0-4)

### 2.8 HMIS rating:





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## Section 2 - Hazards Identification

Health	1
Flammability	1
Physical Hazard	0
Personal protection	E

HIMS RATNGS (0-4)

## Section 3 - Composition / Information on Ingredients

**3.1 Ingredient Name:** Magnesium Aspartate

**3.2 Synonym:** L-Aspartic acid magnesium salt, Magnesium L-aspartate, Aspartic acid, magnesium salt

**3.3 CAS No:** 18962-61-3

**3.4 EC number:** 242-703-7

**3.5 Molecular Formula:** C<sub>8</sub>H<sub>12</sub>MgN<sub>2</sub>O<sub>8</sub>

**3.6 Molecular Weight:** 288.49 g/mol

**3.7 % wt :** 100%

## Section 4 – First Aid Measures

**4.1 Description of first aid measures:**

**4.1.1 Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**4.1.2 Skin Contact:** Section Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops

**4.1.3 Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**4.1.4 Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.





## Section 4 – First Aid Measures

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

Symptoms No information available.

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

Note to physicians Treat symptomatically.

## Section 5 – Fire Fighting Measures

### 5.1 Flammability of the Product:

Not available.

### 5.2 Auto-Ignition Temperature:

Not available.

### 5.3 Flash Points:

Not available.

### 5.4 Flammable Limits:

Not available.

### 5.5 Products of Combustion:

Oxide of Carbon.

### 5.6 Suitable Extinguishing media:

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

### 5.7 Specific Hazards arising from Chemicals:

No data available.

### 5.8 Fire Fighting Media and Instructions:

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Wear self-contained breathing apparatus for firefighting if necessary.

### 5.9 Advice for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary

### 5.10 Protective equipment and precautions for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 5.11 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. At high temperatures under fire conditions, it may produce toxic or irritating





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fumes. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

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

### **6.1 Personal Protection:**

Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Keep unprotected persons away.

#### **6.1.1 Skin Protection:**

Impermeable gloves recommended.

#### **6.1.2 Eye Protection:**

Safety glasses or goggles.

#### **6.1.3 Respiratory Protection:**

None required under usual condition of use. In case of insufficient ventilation, wear suitable respiratory equipment. Follow OSHA respirator regulations found in 29 CFR 1910.134.

### **6.2 Environmental Protection:**

Keep spills out of sewers and bottles of water. Do not let the chemical enter drains. Discharge into the environment must be avoided

### **6.3 Methods and material for containment and cleaning up:**

#### **6.3.1 Methods for containment**

Prevent further leakage or spillage if safe to do so.

#### **6.3.2 Methods for cleaning up**

Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating dust.

**6.3.3 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 legal requirements.

**6.3.4 Large Spill:** Contain spilled material. Cover with an inert, non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Vacuum or sweep-up and remove to an approved disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate as per law.





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## Section 7 – Handling and Storage

### 7.1 Handling

Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care.

Keep ignition sources away

### 7.2 Storage

Store in cool, dry, and ventilated area away from heat sources and protected from sunlight in tightly closed original container. Keep air contact to a minimum. Store protected from heat, sparks and ignition sources and incompatible materials. Avoid contact with skin and eyes. Avoid inhalation of dust/mist/vapor. Do not store with incompatible materials like strong oxidizing agents and acids.

#### 7.2.1 Storage conditions

Tightly closed. Dry.

#### 7.2.2 Storage class

Storage class (TRGS 510): 11: Combustible Solids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## Section 8 – Exposure Controls / Personal Protection

### 8.1 Control parameters:

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### 8.2 Engineering Controls:

Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants

### 8.3 Individual protection measures, such as personal protective equipment:

#### 8.3.1 Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. No specific eye protection required during normal use.

#### 8.3.2 Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the





## Section 8 – Exposure Controls / Personal Protection

breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

### 8.3.3 Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

#### **Full contact**

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

#### **Splash contact**

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

### 8.3.4 Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation.

Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.

Follow OSHA respirator regulations found in 29 CFR 1910.134.

### **8.4 Hygiene measures:**

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

#### 8.4.1 General Industrial Hygiene Considerations:





## Section 8 – Exposure Controls / Personal Protection

Handle in accordance with good industrial hygiene and safety practice.

### 8.5 Thermal hazards:

no data available

### 8.6 Exposure Limits:

Consult local authorities for acceptable exposure limits.

### 8.6 Occupational Exposure limit:

No data available

### 8.7 Biological limit values:

No data available

## Section 9 - Physical and chemical properties

Appearance Form:	Solid
Color:	White
Odor	No data available
Odor Threshold:	No data available
pH:	6.0 – 8.0
Melting point/freezing point:	Decomposed at 140°C
Initial boiling point and boiling range:	264.1 °C
Flash point:	113.5°C
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Relative density:	No data available
Water solubility:	Soluble
Partition coefficient: n-octanol/water:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidizing properties:	None







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## Section 10 – Stability and Reactivity

### 10.1 Reactivity:

No data available.

### 10.2 Stability:

Stable under normal temperatures and pressures.

### 10.3 Incompatibility with various substances:

Avoid high temperatures, sparks, open flames, and moisture. Avoid contact with strong oxidizing agents.

### 10.4 Conditions to Avoid:

Incompatible materials, Moisture, Extremes of temperature and direct sunlight.

### 10.5 Hazardous Decomposition Product:

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

### 10.6 Polymerization:

Will not occur.

## Section 11 – Toxicological Information

### 11.1 RTECS Reference:

Not Available

No toxicological data available for this product. One report gives the following information:

Oral LD<sub>50</sub> > 5110 mg / kg (rat). The value refers to L-aspartic acid.

### 11.2 Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as possible or confirmed human carcinogen by IARC, ACGIH, OSHA and NTP.

### 11.3 Mutagenic Effects:

Not available.

### 11.4 Teratogenic Effects:

Not available.

### 11.5 Developmental Toxicity:

Not available.

### 11.6 Reproductive Effects:

No information available.

### 11.7 Toxicity Data:





## Section 11 – Toxicological Information

Not Available

### 11.8 Target Organs:

Not Available

### 11.9 Skin corrosion/irritation:

Not Available

### 11.10 Serious eye damage/irritation:

Not Available

### 11.11 Germ cell mutagenicity:

No data available

### 11.12 Carcinogenicity:

Not Available

### 11.13 Reproductive toxicity:

No information available.

### 11.14 STOT - single exposure:

No information available.

### 11.15 STOT - repeated exposure:

No information available.

### 11.16 Aspiration hazard:

No data available

### 11.17 Additional Information:

Endocrine disrupting properties

Product:

**Assessment:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Section 12 – Ecological Information

### 12.1 Ecotoxicity:

May cause long lasting harmful effects to aquatic life 100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.





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**12.1 Toxicity to fish:**

Not available.

**12.2 Persistence and degradability:**

Not Available

**12.3 Mobility:**

No information available

**12.4 Bio accumulative potential:**

Not Available

**12.5 PBT and vPvB assessment:**

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

**12.6 Endocrine disrupting properties:**

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects:**

Not Available

### Section 13 – Disposal Considerations

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

### Section 14 – Transport Information

**14.1 UN-Number**

ADR/RID: IMDG: IATA:

**14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: IMDG: IATA:

**14.4 Packaging Group**





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ADR/RID: IMDG: IATA:

**14.5 Environmental hazards**

ADR/RID: No IMDG Marine pollutant: No IATA: No

**14.6 D O T Classification:**

Not a DOT controlled material

**14.7 Air transport Goods:**

Nonhazardous/non-dangerous as per IATA DGR.

**14.8 Special Provision for Transport:**

Not applicable

**14.9 IATA Specification**

Non-dangerous, non-hazardous

**14.10 DOT (Pictograms)**

AS PER IATA REGULATION SAFE FOR CARRAGE, NONHAZARDOUS AND NON-RESTRICTED. NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED. THIS IS NOT REGULATED AS PER IATA REGULATION



## Section 15 – Regulatory Information

**United States:**

**Toxic Substance Control Act (TSCA):** Not listed

**Superfund Amendments and Reauthorization Act (SARA 302):** Not listed

**Superfund Amendments and Reauthorization Act (SARA 311/312):** Not listed

**Superfund Amendments and Reauthorization Act (SARA 313):** Not listed

**European Union:**

**European Inventory of Existing Chemical Substances (EINECS):** Not Available

**Hazard Codes:** Not Available

**Risk Statements:** Not Available

**Safety Statements:** Not Available

**Canada:**

**Canadian Domestic Substances List (DSL):** Not listed





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Canadian Non-Domestic Substances List (NDSL): Not listed

## Section 16 – Other Information

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency Chem View Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

**International Inventories: All of the components in the product are on the following Inventory Lists**

TSCA (United States): Canada (DSL/NDSL) Europe(EINECS/ELINCS/NLP) Australia (AICS) China (IECSC)

Chemical name	TSCA	DSL	NDSL	EINCS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Magnesium L- aspartate Salt	X	X	-	X	-	-	-	-	-	X





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X – Listed

TSCA- United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL- Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS- European Inventory of Existing Chemical substances / European List of notified Chemical Substances

ENCS- Japan Existing and new chemical Substances

IECSC- China Inventory of Existing Chemical Substances

KECL – Korean Existing and evaluated Chemical Substances

PICCS – Philippines inventory of chemicals and chemical Substances.

**US Federal Regulations:**

**SARA 313:**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986(SARA). This product does not contain any chemicals which are subjected to the reporting requirements of the Act and Title 40 of the Code of Federal regulations, Part 372.

**SARA 311/312 Hazard Categories:**

**Acute Health hazard:** No

**Chronic Health Hazard:** No

**Fire Hazard:** No

**Sudden release of Pressure hazard:** No

**Reactive hazard:** No

**CWA (Clean Water Act):**

This Product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**US State Regulations:**

**California Proposition 65**

This product does not contain any Proposition 65 Chemicals

**U.S state Right-to-know Regulations**

This product does not contain any substances regulated by state right-to-know regulations.

**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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