



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: Magnesium Pidolate

1.2 Product Code: MGPBP08

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

Laboratory chemicals, Manufacture of substances

1.4 Company Identification:

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Section 2 - 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.

2.3 Other hazards

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.

2.4 Precautionary statements:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P262: Do not get in eyes, on skin, or on clothing.

P281: Use personal protective equipment as required.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P304+P340: IF INHALED: Remove victim 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.

P337+313: If eye irritation persists get medical advice/attention.

2.5 Hazards not otherwise classified (HNOC):

May causes mild skin irritation.

2.6 Potential Acute Health Effects:

May causes mild eye irritation. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

2.7 Potential Chronic Health Effects:



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Section 2 - Hazards Identification

2.7.1 Carcinogenic effects

Not available.

2.7.2 Mutagenic effects

Not available.

2.7.3 Teratogenic effects

Not available.

2.7.4 Developmental toxicity

Not available.

2.8 Repeated or prolonged exposure:

Not known to aggravate medical condition.

Section 3 - Composition / Information on Ingredients

3.1 Ingredient Name: Magnesium Pidolate

3.2 Synonym: Magnesium (S)-2-pyrrolidone-5-carboxylate, Magnesium 5-oxo-L-proline, MAG2

3.3 Molecular formula: $C_{10}H_{12}MgN_2O_6$

3.4 Molecular Weight: 280.52 g/mol

3.5 CAS Number: 62003-27-4

3.6 EC number: 263-365-7

3.7 % wt: 100%

Section 4 - First Aid Measures

4.1 Description of necessary first-aid measures:

4.1.1 General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

4.1.2 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.

4.1.3 Skin Contact

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

4.1.4 Ingestion



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Section 4 - First Aid Measures

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.

4.1.5 Inhalation

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

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:

5.1.1 Suitable extinguishing media:

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

5.2 Flammability of the Product:

May be combustible at high temperature.

5.3 Auto-Ignition Temperature:

Not available.

5.4 Flash Points:

Not available.

5.5 Flammable Limits:

These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...). Some metallic oxides.

5.6 Products of Combustion:

Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

5.7 Fire Hazards in Presence of Various Substances:

Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.

5.8 Fire Fighting Media and Instructions:

5.8.1 Small fire:

Use DRY chemical powder.

5.8.2 Large fire:

Use water spray, fog or foam. Do not use water jet.

5.9 Special Remarks on Fire Hazards:



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Section 5 - Fire-Fighting Measures

As with most organic solids, fire is possible at elevated temperatures

5.10 Special Remarks on Explosion Hazards:

Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures: Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Keep unprotected persons away.

6.2 Environmental Protection: Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

7.1 Precautions for safe 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 a tightly closed container in a dry, well-ventilated place.

Section 8 - Exposure Controls / Personal Protection

8.1 Exposure controls:

Personal protective equipment

8.1.1 Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

8.1.2 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 Regulation (EU) 2016/425 and the standard EN 374 derived from it.



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Section 8 - Exposure Controls / Personal Protection

8.1.3 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.

8.1.4 Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.2 Control of environmental exposure:

No special environmental precautions required.

Section 9 - Physical and Chemical Properties

Appearance Form	:	Amorphous hygroscopic Powder
Color	:	white or almost white
Odour	:	No data available
pH of 10 % w/v aqueous suspension	:	5.5 – 7.0
Relative density	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Vapour pressure	:	No data available
Vapour density	:	No data available
Upper/lower flammability or explosive limits	:	No data available
Evaporation rate	:	Slightly soluble in water.
Decomposition temperature	:	No data available
Viscosity. dynamic	:	No data available
Flammability (solid, gas)	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Water solubility	:	Soluble
Relative density	:	No data available
Relative vapor density	:	No data available

Other safety information: No data available

Section 10 - Stability and Reactivity

10.1 Reactivity:



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Section 10 - Stability and Reactivity

No data available

10.2 Stability:

Stable under normal temperatures and pressures.

10.3 Incompatibility:

Strong oxidizing agents, Strong reducing agents.

10.4 Conditions to Avoid:

Avoid high temperatures, sparks, open flames, and moisture, heat, Flame, Sparks, other ignition sources

10.5 Hazardous Decomposition Product:

Carbon oxides, Magnesium oxides

Section 11 - Toxicological Information

11.1 RTECS Reference:

Not Available

11.2 Toxicity Data:

Not Available

11.3 Target Organs:

Not Available

11.4 Skin corrosion/irritation:

No data available

11.5 Serious eye damage/eye irritation:

No data available

11.6 Respiratory or skin sensitization:

No data available

11.7 Germ cell mutagenicity:

No data available

11.8 Carcinogenicity:

No data available

11.9 Reproductive toxicity:

No data available

11.10 Specific target organ toxicity - single exposure:

No data available

11.11 Specific target organ toxicity - repeated exposure:

No data available

11.12 Aspiration hazard:



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Section 11 - Toxicological Information

No data available

Section 12 - Ecological Information

12.1 Toxicity:

Not Available

12.2 Persistence and degradability:

Not Available

12.3 Bio-accumulative potential:

Not Available

12.4 Mobility in soil:

No data available

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 bio-accumulative (vPvB) at levels of 0.1% or higher. No data available

12.6 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

DOT 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, NONHAZARDOUS AND NON-RESTRICTED.

NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED.





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Section 14 - Transport Information

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

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

European Inventory of Existing Commercial Chemical Substances (EINECS)	Listed.
EC Inventory	Listed.
United States Toxic Substances Control Act (TSCA) Inventory	Listed.
China Catalog of Hazardous chemicals 2015	Not Listed.
New Zealand Inventory of Chemicals (NZIoC)	Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Not Listed.
Vietnam National Chemical Inventory	Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Not Listed.
Korea Existing Chemicals List (KECL)	Not Listed.

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 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.

Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road



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RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

References

IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>

HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>

eChemPortal - The Global Portal to Information on Chemical Substances by OECD,

website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

CAMEO Chemicals,

website: <http://cameochemicals.noaa.gov/search/simple>

ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website:

<http://www.phmsa.dot.gov/hazmat/library/erg>

Germany GESTIS-database on hazard substance,

website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>

ECHA - European Chemicals Agency,

website: <https://echa.europa.eu>

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