



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: L-Methyl Folate Calcium IHS
1.2 Product Code : LMFNL95
1.3 Company Identification: WEST BENGAL CHEMICAL INDUSTRIES LIMITED
145/1, Jessore Road, Lake Town, Kolkata – 700 089, India.
Phone: +91 33 4025 1700 Fax: +91 33 2574 7410
Website: www.wbcil.com Email: wbcil@wbcil.com
Emergency Telephone No.: +91 9874356081

Section 2 - Composition / Information on Ingredients

Chemical Name : L-Methyl folate Calcium
Molecular Formula : C₂₀H₂₃CaN₇O₆
Molecular Weight : 497.5 g/mol
CAS No : 151533-22-1

Section 3 – Hazards Identification

2.1 Classification of the substance or mixture:	Not 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.
H302+H312+H332 (16.67%):	Harmful if swallowed, in contact with skin or if inhaled
H302 :	Harmful if swallowed.
H315 :	Causes skin irritation.
H319 :	Causes serious eye irritation.
H335 :	May cause respiratory irritation.
P261 :	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 :	Wash hands [and ...] thoroughly after handling.







Section 3 – Hazards Identification

P270:	Do not eat, drink or smoke when using this product.
P271 :	Use only outdoors or in a well-ventilated area.
P280 :	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352:	IF ON SKIN: wash with plenty of water.
P304+P340:	IF INHALED: Remove person to fresh air and keep 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.
P321 :	Specific treatment.
P330:	Rinse mouth.
P264+P265:	Wash hands thoroughly after handling. Do not touch eyes.
P332+P313 If skin irritation occurs:	Get medical advice/attention.
P301+P317:	IF SWALLOWED: Get medical help.
P317:	Get emergency medical help.
P319:	Get medical help if you feel unwell.
P332+P317:	If skin irritation occurs: Get medical help.
P337+P317:	If eye irritation persists: Get medical help.
P362+P364:	Take off contaminated clothing and wash it before reuse.
	Precautionary statement(s) Storage.
P405:	Store locked up.
P403+P233:	Store in a well-ventilated place. Keep container tightly closed.
	Precautionary statement(s) Disposal.
P501:	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.





Section 3 – Hazards Identification		
Acute Toxicity (Oral)	Category 4	 NFPA SCALE (0-4)
Skin Corrosion /Irritation	Category 2	
Serious Eye Damage/Eye irritation	Category 2	
Specific Target Organ Toxicity	Single Exposure	
(Respiratory Tract Irritation)	Category 3	
		

Section 4 - First Aid Measures
4.1 Description of first aid measures <ul style="list-style-type: none">• If inhaled: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.• In case of skin contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse• In case of eye contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.• If swallowed: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by a medical personnel.
4.2 Most important symptoms and effects, both acute and delayed <p>The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11</p>
4.3 Indication of any immediate medical attention and special treatment needed <p>No data available.</p>





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Section 5 - Fire-Fighting Measures

5.1 Extinguishing media

- **Suitable extinguishing media:** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

5.2 **Special hazards arising from the substance or mixture:** No data available.

5.3 **Advice for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

5.4 **Further information:** No data available.

Section 6 - Accidental Release Measures

6.1 **Personal precautions, protective equipment and emergency procedures:** Avoid raising and breathing dust, and provide adequate ventilation. For personal protection see section 8.

6.2 **Environmental precautions:** Take steps to avoid release into the environment, if safe to do so.

6.3 **Methods and materials for containment and cleaning up:** Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

6.4 Reference to other sections

For disposal see section 13.

Section 7 - Handling and Storage

7.1 **Precautions for safe handling:** Avoid breathing dust/fume/gas/mist/vapour/spray. Avoid prolonged or repeated exposure. For precautions see section 2.2.

7.2 **Conditions for safe storage, including any incompatibilities:** Keep container tightly closed. Store in accordance with information listed on the product insert.

7.3 **storage Temp :** inert atmosphere, 2-8°C

Store in original container, tightly sealed, protected from direct sunlight and moisture.

Store at 2 C° - 8 °C.





Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters

8.2 Exposure controls:

Appropriate engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits

Personal protective equipment:

Eye/face protection: Safety glasses; Compatible chemical-resistant gloves; Lab coat and NIOSH approved respirator, as conditions warrant.

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: NIOSH approved respirator, as conditions warrant.

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	:	Solid, powder.
Appearance	:	White to yellow color powder.
Odour	:	Measure odour in factory.
Water Solubility	:	Sparingly 1.07g/100g@20°C
Vapour Pressure at 35°C	:	No data available.
Vapour Density (Air = 1)	:	No data available.
Specific Gravity	:	No data available.
Boiling Point / Range	:	No data available.
Melting / Freezing Point	:	>300 °C Literary Reference
Other	:	No data available.
Other safety information	:	No data available





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Section 10 - Stability and Reactivity

- 10.1 Reactivity:** No data available.
10.2 Chemical stability: Stable if stored in accordance with information listed on the product insert.
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: No data available.

Section 11 - Toxicological Information

- 11.1 Information on toxicological effects**
Acute toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.
Skin corrosion/irritation: No data available.
Serious eye damage/eye irritation: No data available.
Respiratory or skin sensitization: No data available.
Germ cell mutagenicity: No data available.
Carcinogenicity: No data available.
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.
ACUTE TOXICITY : Calcium D, L, Methyltetrahydrofolate:
Oral: Rat: LD50: (mg/kg): > 2000
Dermal: Rat LD50: (mg/kg): > 2000
Inhalation: Rat: LC50: (mg/L/4hr): Not available.





Section 12 - Ecological Information

12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

ecotoxicity : EC50: 48 Hr: Crustacea: (mg/L): Not available

LC50: 96 Hr: Fish: (mg/L): Not available

EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available

12.2 Persistence and degradability: No data available.

12.3 Bioaccumulative potential: No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

Section 13 - Disposal Considerations

Waste treatment methods Product: Dispose in accordance with local, state, and federal regulations.

Contaminated packaging: Dispose of as unused product.

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, NON-HAZARDOUS AND NON-RESTRICTED.

NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED.

THIS IS NOT REGULATED AS PER IATA REGULATION





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Section 15 - Regulatory Information

5.1 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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