



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 Website: www.wbcil.com

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: Ferrous Bis Glycinate

Product Code : IBGNL20

Company Identification:

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Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt
1. Ferrous Bis Glycinate	20150-34-9	100%
2. Molecular Weight	203.96 g/mol	
3. Molecular Formula	C ₄ H ₈ FeN ₂ O ₄	


Section 3 - Hazards Identification

Appearance	:	Free flowing, off white to buff coloured powder, with occasional friable lumps.
Caution	:	None
Target Organs	:	None
Potential Health Effect (Eye, Skin & Inhalation)	:	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation





Section 3 - Hazards Identification

<p>Chronic Exposure H302 (37.9%) H312 (37.9%) H315 (60.7%) H319 (60.7%) H332 (37.9%) H400 (37.9%) P261, P264, P264+P265, P270, P271, P273, P280, P301+P317, P302+P352, P304+P340, P305+P351+P338, P317, P321, P330, P332+P317, P337+P317, P362+P364, P391, and P501</p>	<p>: No known significant effects or critical hazards : Harmful if swallowed : Harmful in contact with skin : Causes skin irritation : Causes serious eye irritation : Harmful if inhaled : Very toxic to aquatic life Acute Tox. 4 (37.9%) Acute Tox. 4 (37.9%) Skin Irrit. 2 (60.7%) Eye Irrit. 2 (60.7%) Acute Tox. 4 (37.9%) Aquatic Acute 1 (37.9%)</p>								
	 <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="background-color: #0056b3; color: white;">Health</td> <td style="text-align: center; color: white;">1</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">Flammability</td> <td style="text-align: center; color: white;">1</td> </tr> <tr> <td style="background-color: #ffff00; color: black;">Physical Hazard</td> <td style="text-align: center; color: black;">0</td> </tr> <tr> <td style="background-color: #cccccc;">Personal protection</td> <td style="text-align: center; color: black;">E</td> </tr> </table> <p style="text-align: center;">HMIS RATINGS (0-4)</p>	Health	1	Flammability	1	Physical Hazard	0	Personal protection	E
Health	1								
Flammability	1								
Physical Hazard	0								
Personal protection	E								

Section 4 - First Aid Measures

Ingestion	: Vomiting caused by local irritant and astringent action of ionic Ferrous on stomach and bowel. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and induce vomiting.
Skin Contact	: Irritant, wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Eye Contact	: Conjunctivitis and edema of eyelids. Hold eyelids open and flush with plenty of water. Cold water may be used. Get medical attention if irritation occurs.





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Section 5 - Fire-Fighting Measures

Products Of Combustion	:	These products are carbon oxides (CO, CO ₂). Some metallic oxides.
Fire Hazard In Presence Of Various Substances	:	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
Explosion Hazard In Presence Of Various Substance	:	Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.
Fire Extinguishing Media	:	Use fire-extinguishing media appropriate to the surrounding fire

Section 6 - Accidental Release Measures

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 local and regional authority requirements.
Large Spill	:	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7 - Handling and Storage

Precautions For Safe Handling	:	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents.
Storage	:	Keep container tightly closed. Keep container in a cool, well-ventilated area. Store at 2°C - 8°C.





Section 8 - Exposure Controls / Personal Protection

Appropriate 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.
Personal Protection	: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved / certified respirator or equivalent. Gloves.
Personal Protection In Case Of A Large Spill	: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product..

Section 9 - Physical and Chemical Properties

Appearance form	: Free flowing, off white to buff coloured powder,with occasional friable lumps.
Color	: Off white to buff
Odour	: Odourless
Solubility	: Soluble in water with opalescence.
Density	: 1.898 at 20°C
Water Solubility	: 35.71 mg/mL (176.83 mM)
Surface Tension	: 72.87mN/m at 1g/L and 20°C
Boiling point	: 150°C at 101kPa
Freezing/Melting Point	: 186-195°C





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Section 10 - Stability and Reactivity

Stability	: The product is stable at normal conditions.
Incompatibilities with other material	: Reactive with oxidizing agents.
Hazardous Polymerization	: Will not occur.
Incompatibilities	
Corrosivity	: Non corrosive in presence of glass.
Conditions of instability	: Unstable under conditions of oxidation, high moisture, extreme pH, elevated temperatures, and exposure to chelating agents

Section 11 - Toxicological Information

Routes of entry	: Inhalation. Ingestion.
Toxicity to animals	: LD50: Not available. LC50: Not available.
Other Toxic Effects on Humans	: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Respiratory or skin sensitization	: No Data Available
Germ Cell Mutagenicity	: No Data Available
Acute toxicity	: LD50 value of 2,800 mg/kg (oral, rats) for 90 days.

Section 12 - Ecological Information

Ecotoxicity	: Not Available
Bod5 & Cod	: Not Available
Products Of Biodegradation	: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity Of The Products Of Biodegradation	The product itself and its products of degradation are not toxic.
Special Remarks On The Products Of Biodegradation.	Not Available





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Section 13 - Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14 - Transport Information

DOT Classification	:	Not a DOT controlled material
Identification	:	Not applicable.
Special Provision for Transport	:	Not applicable
UN proper shipping name:	:	
ADR/RID	:	Not dangerous goods
IMDG:	:	Not dangerous goods
IATA:	:	Not dangerous goods

Section 15 - Regulatory Information

Federal and State Regulations	:	No products were found.
Other Regulations	:	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
WHMIS (Canada)	:	Not controlled under WHMIS (Canada).
DSCL (EEC)	:	This product is not classified according to the EU regulations Not applicable.
HMIS (U.S.A.)	:	
Health Hazard	:	1
Fire Hazard	:	1
Reactivity	:	0
Personal Protection	:	E
Protective Equipment	:	Gloves. Lab coat. Dust respirator. Be sure to use an approved / certified respirator or equivalent splash goggles.





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Section 16 - Other Information

Disclaimer: This material safety data sheet is provided as an information resource 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.: 01

