



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

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Section 1 - Chemical Product and Company Identification

Product Name: PHARMACEUTICAL RAW MATERIALS: SUCROFERRIC OXYHYDROXIDE

Company Identification: SFONL19

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Section 2 - Composition / Information on Ingredients

Chemical Name	:	Sucroferric Oxyhydroxide
Molecular Formula	:	$C_{12}H_{29}Fe_5Na_2O_{23}$
Molecular Weight	:	866.5 g/mol
CAS Number	:	8047-67-4

Section 3 - Hazards Identification

Potential Acute Health Effects	:	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
Potential Chronic Health Effects	:	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
Carcinogenic Effects	:	Not Available
Mutagenic Effects	:	Not Available
Teratogenic Effects	:	Not Available
Developmental Toxicity	:	Not Available

Section 3- Label elements :

Hazard statements	
H 315	Causes skin irritation.
H 319	Causes serious eye irritation.
H 335	May cause respiratory irritation.
Hazard pictograms: GHS07: Exclamation mark	
Precautionary statements	
P 261	Avoid breathing dust /fume /gas /mist /vapors /spray.





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P 305 + P 351 + P 338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280: Signal words: Warning	Wear gloves/protective clothing/eye protection/face protection
P312:	Call a POISON CENTER/doctor//if you feel unwell
P304+340:	IF INHALED: Move to fresh air and keep comfortable for breathing.
P302+352:	IF ON SKIN: Wash with plenty of water.
PBT:	This product is not identified as PBT/vPvB substance.

Section 4 - First Aid Measures

General advice	: Consult a physician. Show this safety data sheet to the doctor.
If inhaled	: If breathed in, move person into fresh air. If not breathing give artificial respiration.
In case of skin & eye contact	: In case of eye, rinse with plenty of water, and in case of skin, wash with plenty of soap and water.
If swallowed	: Never give anything by mouth to an unconscious person. Rinse Mouth with water.

Section 5 - Fire-Fighting Measures

Flammability of the Product	: Non-flammable.
Auto-Ignition Temperature	: Not applicable.
Flash Points	: Not applicable.
Flammable Limits	: Not applicable.
Products of Combustion	: Not available.
Fire Hazards in Presence of Various Substances	: Not available.
Explosion Hazards in Presence of Various Substances	: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	: Wear a self-contained breathing apparatus and chemical protective clothing.
Special Remarks on Fire Hazards	: Toxic fumes.
Special Remarks on Explosion Hazards	: Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.





Section 6 - Accidental Release Measures

- Personal precautions** : Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.
- Environmental precautions** : Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.
- Methods and materials for containment and cleaning up** : Not Available

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: Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

Storage: Store in a closed container at room temperature, away from heat, moisture & direct light.

Section 8 - Exposure Controls / Personal Protection

- 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. 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.
- Personal Protection in Case of a Large Spill** : TWA: 1 (mg/m³) from ACG IH Consult local authorities for acceptable exposure limits.
- Exposure Limits** :





Section 9 - Physical and Chemical Properties

Appearance	:	Fine Powder
Odour	:	Odourless
Taste	:	Not available.
Color	:	Brown
Solubility	:	Soluble in most inorganic acids, insoluble in water
Specific Gravity	:	Not available
Vapour Pressure (mm Hg)	:	Not applicable
Vapour Density (Air = 1)	:	Not available
Molecular Weight	:	866.5 g/mol
pH	:	5.5 – 8.0

Section 10 - Stability and Reactivity

Stability	:	The product is stable under normal conditions.
Incompatibilities with other material	:	Acids, strong oxidizers.
Hazardous Polymerization	:	Carbon dioxide (CO ₂), carbon monoxide.
Corrosivity	:	Non-corrosive in presence of glass.

Section 11 - Toxicological Information

Routes of Entry	:	Inhalation. Ingestion.
Toxicity to Animals	:	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	:	Not available.
Other Toxic Effects on Humans	:	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	:	Not available.
Special Remarks on Chronic Effects on Humans	:	Not available
Special Remarks on other Toxic Effects on Humans	:	Skin: Contact may cause irritation or rash, particularly with moist skin. Eyes: Dust may cause irritation (abraisson) by mechanical action and cause redness, and tearing. Inhalation: Inhalation high concentrations of dust may cause nasal or lung irritation. Ingestion: Ingestion can produce gastrointestinal tract irritation. Can cause diarrhoea.





Section 11 – Toxicological Information

Germ Cell Mutagenicity: : Sucoferric oxyhydroxide was not mutagenic in the Ames bacterial reverse mutation test and did not induce chromosomal aberrations in Chinese hamster fibroblast cells. It did not cause DNA damage in the rat Comet assay or increase micronuclei in rat peripheral blood tests.

Carcinogenicity: : In a 2-year carcinogenicity study in mice, doses up to 1,000 mg/kg/day showed no clear evidence of carcinogenic effects. Similarly, a 2-year study in rats at doses up to 500 mg/kg/day did not result in a statistically significant increase in tumor incidence.

Reproductive Toxicity : In rat studies, oral doses up to 800 mg/kg/day did not affect mating performance or fertility. In pregnant rats, doses up to 800 mg/kg/day showed no embryo-fetal developmental toxicity. In rabbits, a dose of 200 mg/kg/day resulted in increased incidences of incomplete or unossified epiphyses and metacarpals/phalanges.

Specific Target Organ Toxicity (Single and Repeated Exposure) : No specific target organ toxicity observed in clinical use. The compound is minimally absorbed, reducing the risk of systemic toxicity.





Aspiration Hazard: Not applicable due to its solid form and route of administration.

Section 12 - Ecological Information

Ecotoxicity	:	Not available.
BOD5 and 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 of degradation are more toxic.
Special Remarks on the Products of Biodegradation	:	Not available.

Section 13 - Disposal Considerations

Product related considerations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

Contaminated packaging

Dispose of as unused product.

Section 14 - Transport Information

D O T Classification	:	Not a DOT controlled material
Air transport Goods	:	Non hazardous /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

Federal and State Regulations	:	TSCA 8(b) inventory: Sucoferric Oxyhydroxide
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	:	2
Fire Hazard	:	0
Reactivity	:	0
Personal Protection	:	E
Protective Equipment	:	Gloves. Lab coat. Dust respirator. Be sure to use an approved / certified respirator or equivalent. Splash goggles.

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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