



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

MSDS Name: Ferric Maltol

Product Code: FEM1180

Synonyms: Iron (3+);2-methyl-4-oxopyran-3-olate

Company Identification:

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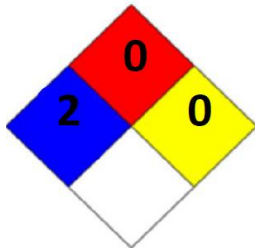

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Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt	Molecular Wt.
Ferric Maltol	33725- 54-1	90 - 100	431.2 gm/mol

Section 3 - Hazards Identification

POTENTIAL ACUTE HEALTH EFFECTS	:	Solid material is not expected to be an eye irritant; however, contact with molten wax may cause thermal burns. Vapors from molten wax may cause watering of the eyes.	  <p>NFPA SCALE (0-4)</p> <table border="1" data-bbox="889 1461 1393 1650"> <thead> <tr> <th>Health</th> <th>2</th> </tr> </thead> <tbody> <tr> <th>Flammability</th> <th>0</th> </tr> <tr> <th>Physical Hazard</th> <th>0</th> </tr> <tr> <th>Personal Protection</th> <th>x</th> </tr> </tbody> </table> <p>HMIS RATEINGS (0-4)</p>	Health	2	Flammability	0	Physical Hazard	0	Personal Protection	x
Health	2										
Flammability	0										
Physical Hazard	0										
Personal Protection	x										
POTENTIAL CHRONIC HEALTH EFFECTS	:	Solid material is not expected to be a skin irritant; however, skin contact with molten wax may cause thermal burns. No harmful effects from skin absorption are expected.									
CARCINOGENIC EFFECTS	:	No data available.									
MUTAGENIC EFFECTS	:	No data available.									
TERATOGENIC EFFECTS	:	No data available.									
DEVELOPMENTAL TOXICITY	:	No data available.									



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Section 4 - First Aid Measures

INHALATION	:	Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR) Avoid mouth-to-mouth resuscitation.
INGESTION	:	Wash out mouth with water; Do NOT induce vomiting; call a physician.
SKIN CONTACT	:	Rinse skin thoroughly with large amounts of water. Remove contaminated clothing and shoes and call a physician.
EYE CONTACT	:	Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water. Separate eyelids with fingers to ensure adequate flushing. Promptly call a physician.

Section 5 - Fire-Fighting Measures

FLAMMABILITY OF THE PRODUCT	:	May be combustible at high temperature.
AUTO IGNITION TEMPERATURE	:	Not available.
FLASH POINTS	:	Not available.
PRODUCTS OF COMBUSTION	:	These products are carbon oxides (CO, CO ₂). Some metallic oxides.
FIRE HAZARDS IN PRESENCE OF VARIOUS SUSTANCES	:	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUSTANCES	:	Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.



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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 evacuating through the sanitary system.

Section 7 - Handling and Storage

PRECAUTIONS	:	If respiratory symptoms develop from exposure to fumes emitted by the molten material, move victim away from source.
STORAGE	:	Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition. Recommended storage temperature: Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month

Section 8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS	:	None required when working with the solid material. If airborne concentrations of wax fumes, generated from molten wax, are expected, a NIOSH/MSHA approved air purifying respira-10. Toxicological Information tor with a dust/mist/fume filter may be used. No definitive information available on carcinogenicity,
PERSONAL PROTECTION	:	Not normally required for solid material. The use of thermally-resistant gloves is recommended when there is a potential for exposure to molten wax. Disposal Consideration This material, if discarded as produced, is not a RCRA listed.
PERSONAL PROTECTION IN CASE OF A LARGE SPILL	:	Approved eye protection to safe guard against potential eye contact, irritation, or injury is recommended. A characteristic hazardous waste. Use which results in chemical or source of clean water should be available in the work area for flushing physical change or contamination may subject it to hazardous waste eyes and skin handling this product.
EXPOSURE LIMITS	:	Consult local authorities for acceptable exposure limits.



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Section 9 - Physical and Chemical Properties

APPEARANCE FORM	:	Deep brown, free flowing powder.
VAPOR PRESSURE AT 35°C	:	No information found.
RELATIVE DENSITY	:	1.3
VAPOR DENSITY (AIR = 1)	:	No information found.
ODOUR	:	No information found.
SOLUBILITY	:	Soluble in Chloroform Soluble in Alcohol Soluble in Propylene glycol
Melting / Freezing Point	:	about 300°C literature.
pH (5% w/v Solution)	:	6.0 – 9.5
Molecular Weight	:	431.2 gm/mol

Section 10 - Stability and Reactivity

STABILITY	:	The product is stable at normal conditions.
HAZARDOUS POLYMERIZATION	:	Does not occur
INCOMPATIBILITIES	:	Not available.
CORROSIVITY	:	Not available.

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	:	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	:	Not Available
Acute toxicity	:	Oral LD50 (rat): > 2000 mg/kg (low acute toxicity) Oral LD50 (mouse): > 2000 mg/kg



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Section 12 - Ecological Information

Ecotoxicological Information	:	Acute Toxicity to Fish: LC50 (96 hours): > 100 mg/L (estimated from iron compounds) Acute Toxicity to Aquatic Invertebrates: EC50 (48 hours): > 100 mg/L (estimated from iron compounds) Chronic Toxicity to Fish: NOEC: ~10 mg/L (estimated) Chronic Toxicity to Aquatic Invertebrates: NOEC: 5–10 mg/L (estimated) Toxicity to Algae: EC50 (72 hours): ~10 mg/L (estimated)
BOD 5 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 itself and its products of degradation are not toxic.
SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION.	:	Not Available

Section 13 - Disposal Considerations

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.



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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.



Section 15 - Regulatory Information

FEDERAL AND STATE REGULATION	:	No products were found.	
OTHER REGULATION	:	Not available.	
WHMIS (Canada)	:	Not controlled under WHMIS (Canada).	
DSCL (EEC)	:	This product is not controlled under the EU Regulations.	
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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Revision No.: 02