

(10967)



Kem Canada Mfg, 4 Blair Dr., Brampton, Ontario L6T 2H5 (905) 456-9444

WHMIS Classification: D2B

1. Product Identification: Ferroin Indicator Product Codes: TR641060 & TR641500
MSDS document code: TR641099

2. HAZARDOUS INGREDIENTS

Name	CAS #	% Range	LD 50 (Oral, Rat)	TVL
1, 10, Phenanthroline Monohydrate	5144-89-8	0.1-1.0	132 mg/kg	No Data
Ferrous Sulphate Heptahydrate	7782-63-0	0.1-1.0	No Data	1 mg/m3 (as Fe)

3. PHYSICAL DATA

Appearance: Red-Orange liquid.			
Solubility in Water: Soluble	Odour: None	Boil Pt: >100 C	Melt Pt: Not Applicable
Vapour Pressure: <17 at 20°C	Vapour Density: (Air=1) <1	pH: 4.7-5.3	Specific Gravity: 1.0

4. FIRE & EXPLOSION DATA

Flash Point (method): Not Applicable	Flammable Limit: Not Applicable	UEL: Not Applicable
Extinguishing Media: As for surrounding materials		
WHMIS Hazards: Health = 1 Flammability = 0 Reactivity = 0		
Special Fire Fighting Procedures: Wear full protective equipment including self contained breathing apparatus for all indoor fires		
Unusual Fire & Explosion Hazards: Not applicable		

5. REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	None known
Incompatibility:	Strong oxidizing agent, strong acids
Hazardous Decomposition Products: Oxides of carbon and nitrogen	

6. HEALTH HAZARD DATA

Toxicological Information: Sulphuric Acid is classified as carcinogenic by IARC.			
Primary Route of Entry:	Inhalation: No	Skin: No	Ingestion: Yes Eyes: No
Effects of Acute Exposure: Eyes: May cause irritation. Skin: May cause mild irritation. Ingestion: If significant quantity is swallowed it may cause irritation of gastrointestinal tract.			
Effects of Chronic Exposure: Can cause liver damage.			

7. EMERGENCY FIRST AID PROCEDURES

Eye Contact:	Flush thoroughly with water for at least 15 minutes. Get medical attention if irritation occurs or persists.
Ingestion:	Induce Vomiting. Consult a physician immediately.
Inhalation:	Remove to fresh air.
Skin Contact:	Flush with water 15 minutes while removing contaminated clothing. Get medical attention if irritation occurs. Launder clothing before reuse.

8. SPILL & DISPOSAL PROCEDURES

Spill & Leak:	Contain spill. Absorb onto inert absorbent. Scoop into disposal container. Flush residual with volumes of water.
Disposal:	Disposal in accordance with Federal, Provincial and Municipal regulations.

9. PRECAUTIONARY MEASURES

Protective Equipment:			
Gloves: Impervious	Eyes: Safety goggles	Clothing: No special requirements	Other: Eye wash and Safety Shower
Respiratory: None for normal use.		Ventilation: Local is sufficient when used as directed.	
Handling Procedures: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.			
Storage: Store in a cool, dry area. Keep container sealed when not in use.			

10. TDG SHIPPING INFORMATION

Shipping Name: Not Regulated	Class:	UN No.	Packing Group:
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Date: January 15.2011

Prepared By: Technical Department

The information above is believed to be correct but does not claim to be all inclusive and should be only used as a guide.

APPROVED MATERIAL

FEB 18 2011

MSDS # 10967

APPROVED BY [Signature]