

SPECTRUM CHEMICAL MFG CORP -- FERROUS SULFATE HEPTAHYDRATE -- 6810-00-300-5157

===== Product Identification =====

Product ID:FERROUS SULFATE HEPTAHYDRATE

MSDS Date:10/13/1989

FSC:6810

NIIN:00-300-5157

MSDS Number: BMGPQ

=== Responsible Party ===

Company Name:SPECTRUM CHEMICAL MFG CORP

Address:14422 S SAN PEDRO ST

City:GARDENA

State:CA

ZIP:90248-2027

Country:US

Info Phone Num:213-516-8000

Emergency

Phone Num:213-516-8000

CAGE:63415

=== Contractor Identification ===

Company Name:SPECTRUM LABORATORY PRODUCTS INC

Address:14422 S SAN PEDRO ST

Box:City:GARDENA

State:CA

ZIP:90248-2027

Country:US

Phone:310-516-8000/FAX: 310-516-9843

CAGE:63415

===== Composition/Information on Ingredients =====

Ingred Name:IRON (II) SULFATE (1:1), HEPTAHYDRATE; (FERROUS SULFATE,  
HEPTAHYDRATE)

CAS:7782-63-0

RTECS #:NO8510000

Fraction by Wt: 100%

OSHA PEL:1MG/M3IRON SALTS(Fe)

ACGIH TLV:1MG/M

3IRON SALTS(Fe)  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:SUPP DATA: HYPOTONIA & HYPERGLYCEMIA. IF POISONING IS NOT IMMEDIATE, PATIENT MAY BE ASYMPTOMATIC FOR 24 HOURS, (ING 3)  
RTECS #:9999999ZZ

Ingred Name:ING 2: AFTER WHICH SYMPTOMS MAY RETURN W/CYANOSIS, CONVULSIONS, CIRCULATORY COLLAPSE, MASSIVE HEPATIC FAILURE W/ (ING 4)  
RTECS #:9999999ZZ

Ingred Name:ING 3: JAUNDICE, SEVERE BLEEDING W/ALTERED CLOTTING & BLEEDING PARAMETERS, SEVERE RENAL IMPAIRMENT/FAILURE, DIFFUSE (ING 5)  
RTECS #:9999999ZZ

Ingred Name:ING 4: VASCULAR CONGESTION, PULMONARY EDEMA & PULMONARY HEMMORRHAGE, ACIDOSIS, ANURIA, HYPERTHERMIA, COMA & DEATH W/IN 24-48(ING 6)  
RTECS #:9999999ZZ

Ingred Name:ING 5: HOURS. DEATH IS ALWAYS PRECEDED BY SHOCK. IF VICTIM SURVIVES, LATE COMPLICATIONS DUE TO PYLORIC, ANTRAL/ (ING 7)  
RTECS #:9999999ZZ

Ingred Name:ING 6: INTESTINAL OBSTRUCTION, HEPATIC CIRRHOSIS W/FINE DIFFUSE FIBROTIC CHANGES W/FATTY DEGENERATION & CENTRAL (ING 8)  
RTECS #:9999999ZZ

Ingred Name:ING 7: NERVOUS DAMAGE MAY OCCUR 2-5 WEEKS AFTER INGESTION. DEGENERATIVE CHANGES OF PANCREAS, LYMPH NODES, & HEART ARE (ING 9)  
RTECS #:9999999ZZ

Ingred Name:ING 8: ALSO POSSIBLE. AVERAGE HUMAN LETHAL DOSE OF IRON IS ABOUT 200 TO 250 MG PER KG OF BODY WEIGHT.  
RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC: UPPER & LOWER LIDS, UNTIL NO EVIDENCE OF CHEM REMAINS (AT LEAST 15-20 MIN). CONTINUE IRRIGATING W/ (ING 11)  
RTECS #:9999999ZZ

Ingred Name:ING 10: NORMAL SALINE UNTIL PH HAS RETURNED TO NORMAL  
(

30-60 MIN). COVER W/STERILE BANDAGES. GET MED ATTN IMMED.(ING 12)  
RTECS #:9999999ZZ

Ingred Name:ING 11: INGEST: IN PATIENTS NOT IN SHOCK/COMA, INDUCE  
EMESIS W/SYRUP OF IPECAC IF VOMIT HAS NOT OCCURED. FOLLOW (ING 13)  
RTECS #:9999999ZZ

Ingred Name:ING 12: W/GASTRIC LAVAGE USING DEFEROXAMINE, 2 GRAMS IN 1  
LITER OF H\*2O CONTAINING SODIUM BICARBONATE, 20 GM/L. (ING 14)  
RTECS #:9999999ZZ

Ingred Name:ING 13:LEAVE 10 GRAMS OF DEFEROXAMINE IN 50 ML OF 5% SODIUM  
BICARBONATE IN STOMACH. MAI  
NTAIN AIRWAY, BLOOD PRESS(ING 15)  
RTECS #:9999999ZZ

Ingred Name:ING 14: & RESP. TREAT SYMP & SUPPORTIVELY. (DREISBACH,  
HANDBOOK OF POISONING, 11TH ED.) GET MED ATTN IMMED. (ING 16)  
RTECS #:9999999ZZ

Ingred Name:ING 15: TREATMENT SHD BE ADMIN BY QUALIFIED MED PERSONNEL.  
ANTIDOTE: FOLLOWING ANTIDOTE HAS BEEN RECOM. HOWEVER,(ING 17)  
RTECS #:9999999ZZ

Ingred Name:ING 16: DECISION AS TO WHETHER SEV OF POISONING REQS ADMIN  
OF ANY ANTIDOTE & ACTUAL DOSE REQD SHD BE MADE BY (ING 18)  
RTECS  
#:9999999ZZ

Ingred Name:ING 17: QUALIFIED MED PERSONNEL. IRON SALT POISONING: GIVE  
DEFEROXAMINE, 15 MG/KG/HOUR BY CONT IV INFUSION TO (ING 19)  
RTECS #:9999999ZZ

Ingred Name:ING 18: MAX OF 80 MG/KG IN EACH 12-HOUR PERIOD. MONITOR  
BLOOD PRESS DURING ADMIN OF DEFEROXAMINE & REDUCE RATE (ING 20)  
RTECS #:9999999ZZ

Ingred Name:ING 19: OF ADMIN IF BLOOD PRESS FALLS. SINGLE DOSES SHD NOT  
EXCEED 1 GRAM & MAX IN 24 HOURS SHD NOT EXCEED 6 (ING 21)  
RTECS #:9999999ZZ

Ingred Name:ING 20:GRAMS

.DEFEROXAMINE IS HAZ IN PATIENTS W/SEV RENAL DISEASE/ANURIA, & DIALYSIS IS NEC. INJECTED DEFEROXAMINE(ING 22)  
RTECS #:9999999ZZ

Ingred Name:ING 23: IS ASSOCIATED W/HIGH RISK & SHD BE RESERVED FOR SERIOUS POISONING. CONT DEFEROXAMINE THERAPY UNTIL (ING 23)  
RTECS #:9999999ZZ

Ingred Name:ING 22: PATIENT IS FREE OF SYMP & SIGNS FOR 24 HOURS (DREISBACH, HANDBOOK OF POISONING, 11TH ED.). ANTIDOTE SHD (ING 24)  
RTECS #:9999999ZZ

Ingred Name:ING 23: BE ADMINISTERED BY QUALIFIED MEDICAL PERSONNEL.  
RTECS #:9999999ZZ

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===== Hazards Identification =====

LD50 LC50 Mixture:LD50: (ORAL,RAT) 319 MG/KG.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: MAY CAUSE IRRIT OF RESP TRACT.  
SKIN: MAY CAUSE IRRIT. EYE: CONT W/EYE MAY CAUSE SEV IRRIT & CORRUPTION DUE TO ACIDITY OF SOLN. INGEST: SIDE EFTS OF INGEST OF IRON SALTS MAY INCL HEARTBURN, METAL  
TASTE IN MOUTH, NAUSEA, UPPER  
GASTRIC DISCOMFORT,& CONSTIPATION/DIARRHEA. CHRONIC:SKIN: DERM.  
EYES:(EFTS OF OVEREXPOSURE)  
Explanation of Carcinogenicity:NOT RELEVANT.  
Effects of Overexposure:HEALTH HAZ: CONJ. INGEST: REPROD EFTS IN LAB ANIMALS. SYMPTOMS OF SEV POIS MAY OCCUR W/IN 30 MIN/BE DELAYED FOR SEVERAL HOURS. SEV HEMORRHAGIC GASTRITIS W/ABDOMINAL PAIN, RETCHING, VIOLENT DIARR & VOMIT MAY OCCUR. VOMIT MAY BE BLOODY. DEHYDRATION MAY BECOME INTENSE. CIRCULATORY SYS MAY BE AFFECTED  
W/SYMP OF SHOCK,(SUPP DATA)  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====

First Aid:INHAL: REMOVE FROM EXPOS AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP WARM & AT REST. TREAT SYMPTOMS & SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY. SKIN: REMOVE CONTAMINATED CLOTHING & SHOES IMMEDIATELY. WASH AFFECTED AREA W/ SOAP/MILD DETERGENT & LARGE AMOUNTS OF H<sub>2</sub>O UNTIL NO EVIDENCE OF CHEMICAL REMAINS (

15-20 MIN). GET MED ATTN IMMED.

EYE: WASH EYES IMMED W/LRG AMTS OF H\*2O, OCCASIONALLY LIFTING (ING 10)

===== Fire Fighting Measures =====

Flash Point:NEGLIGIBLE

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, HALON, WATER SPRAY OR STANDARD FOAM. FOR LRGR FIRES, USE H\*2O SPRAY, FOG/STANDARD FOAM.

Fire Fighting Procedures:USE NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP.MOVE CNTNR FROM FIRE AREA IF POSS.DO NOT SCATTER SPILLED MATL W/HIGH PRESS

H\*2O STREAMS.DIKE (SUPP DATA)

Unusual Fire/Explosion Hazard:USE AGENTS SUITABLE FOR TYPE OF SURROUNDING FIRE. AVOID BREATHING HAZARDOUS VAPORS, KEEP UPWIND.

===== Accidental Release Measures =====

Spill Release Procedures:SWEEP UP AND PLACE IN SUITABLE CLEAN, DRY CONTAINERS FOR RECLAMATION OR LATER DISPOSAL. DO NOT FLUSH WITH WATER. KEEP UNNECESSARY PEOPLE AWAY. FOR FURTHER INFORMATION SEE ORIGINAL MSDS .

Neutralizing Agent:NONE SPECIFIED BY MANUFACT URER.

===== Handling and Storage =====

Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLE SUBSTANCES. PREVENT DISPERSION OF DUST IN AIR.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON CONTAMINATION LEVELS FOUND IN WORK PLACE, MUST NOT EXCEED WORKING LIMITS OF RESPIRATOR. USE NIOSH/MSHA APPROVED RE SPIRATOR

APPROPRIATE FOR EXPOSURE OF CON CERN .

Ventilation:PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:CHEM WORK GOG & FULL LGTH FACESHLD

Other Protective Equipment:APPROP PROT (IMPERVIOUS) CLTHG & EQUIP. EYE WASH FOUNTAIN AND QUICK DRENCH SHOWER W/IN IMMED WORK AREA FOR EMER USE.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

PH:3.7 @ 10% SO

LN. FIRE FIGHT PROC: FIRE CNTRL H\*2O FOR LATER DISP.  
EFTS OF OVEREXP: PALLOR, CYANOSIS & COLDNESS, RAPID  
WEAK/IMPERCEPTIBLE PULSE, SEV HYPOTENSION & PULM CHANGES W/DYSPNEA,  
FOCAL ATELECTASIS & EMPHYSEMA MAY OCCUR. OTHER SYMP MAY INCL  
HEMOCONCENTRATION, TACHYCARDIA, LETHARGY, DROW, MENTAL  
CONFUSION, (ING 2)

===== Physical/Chemical Properties =====

Melt/Freeze Pt: M.P/F.P Text: DECOMPOSES

Spec Gravity: 1.898

pH: SUPDAT

Solubility in Water: 15.65 @ @ 20C

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Appearance and Odor: ODORLESS, HYGROSCOPIC, BLUE-GREEN, MONOCLINIC  
CRYSTALS.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

ALKALIES, ARSENIC TRIOXIDE, SODIUM NITRATE, METHYL ISOCYANOACETATE,  
OXIDIZERS.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: TOXIC OXIDES OF SULFUR.

===== Disposal Considerations =====

Waste Disposal Methods: OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS

WHEN STORING OR DISPOSING OF SUBSTANCE. FOR ASSISTANCE, CONTACT  
DISTRICT DIRECTOR OF ENVIRONMENTAL PROTECTION AGENCY.

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