

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

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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/M3IRON SALTS(FE)

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingre

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

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

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

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

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

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

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

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

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

Inged Name:ING 10: NORMAL SALINE UNTIL PH HAS RETURNED TO NORMAL (30-60 MIN). COVER W/STERILE BANDAGES. GET MED ATTN IMMEDIATE.(ING 12)

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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. MAINTAIN 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

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

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

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

===== 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 & CORR
ACTION DUE TO ACIDITY OF SOLN. INGEST: SIDE EFTS OF INGEST OF IRON
SALTS MAY INCL HEARTBURN, MET ALLIC TASTE IN MOUTH, NAUS, UPPER
GASTRIC DISCOMFORT, & CONSTIP
ATION/DIARRHEA. CHRONIC: SKIN: DERM.
EYES: (EFTS OF OVEREXP)
Explanation of Carcinogenicity: NOT RELEVANT.
Effects of Overexposure: HLTH HAZ: CONJ. INGEST: REPROD EFTS IN LAB
ANIMALS. SYMP 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.

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

First Aid: INHAL: REMOVE FROM EXPOS AREA TO FRESH AIR IMMED. IF BRTHG
HAS STOPPED, PERFORM ARTF RESP. KEEP WARM & AT REST. TREAT SYMP &
SUPPORTIVELY. GET MED ATTN IMMED. SKIN: REMOVE CONTAM CLTHG & SHOES
IMMED. WASH AFFECTED AREA W/SOAP/MILD DETERGENT & LRG AMTS OF H₂O
UNTIL NO EVIDENCE OF CHEM REMAINS (15-20 MIN). GET MED ATTN IMMED.
EYE: WASH EYES IMMED W/LRG A

MTS 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 MANUFACTURER.

===== Handling and Storage =====
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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 RESPIRATOR
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% SOLN. 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 ATELECT ASIS & 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
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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