

MEDICAP® FE

SYSTEMIC IRON IMPLANTS

MATERIAL SAFETY DATA SHEET

MANUFACTURER	EMERGENCY TELEPHONE NUMBERS
Creative Sales, Inc. P.O. Box 501 222 N. Park Avenue Fremont, NE 68025-0501 U.S.A.	Product Information: (402) 727-4800 Medical Emergency: (800) 759-7739

NFPA HAZARD RATING

Health 1
Reactivity ... 0

Flammability 0
Special Hazard ... NA

SECTION 1: GENERAL INFORMATION

Catalog Number FES425; FEP425; FEMINI; FE12X5; FE1210; FEP120
Chemical Name & Syn..... 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, ammonium iron (2+) salt
Trade Name & Syn..... Ammonium iron (II) citrate (about 28% Fe)
Chemical Family Inorganic salt
Formula C₆H₈O₇ .xFe .xH₃N
DOT Shipping Name Not required (See comments)
DOT Number NA
CAS Number 1185-57-5

SECTION 2: HAZARDOUS INGREDIENTS

Iron salts, soluble TLV: 1mg (Fe)/M3

SECTION 3: PHYSICAL DATA

Boiling Point (CO) NA
Melting Point (CO) NA
Specific Gravity (H₂O=1) 1.8
Vapor Pressure (mm Hg) NA
Percent Volatile by Vol (%) NA
Vapor Density (Air=1) NA
Evaporation Rate (BuAc=1) NA
Solubility in Water (200) Extremely soluble, 1200g/1
Appearance & Odor Brown odorless or slight ammonia granules

NA = Not Applicable

Revision Date: 12/10/2007

SECTION 4: FIRE & EXPLOSION HAZARD DATA

Flash point (CO)	NA
Auto Ignition Temperature	NA
Flammable Limits LEL %	NA
Flammable Limits UEL %	NA
Extinguishing Media	CO ₂ foam or dry chemical
Special Fire Fighting Proc.....	Follow normal safety procedures
Unusual Fire & Expl. Hazards	No unusual hazards have been reported

NOTE: THE INFORMATION PROVIDED HEREIN REGARDING POTENTIAL HAZARDS OF USING OR STORING THIS PRODUCT WOULD BE APPLICABLE TO THE HANDLING OF THE CHEMICAL CONTAINED INSIDE THE ENCAPSULATED IMPLANT. UNDER NORMAL USE OF THE PRODUCT THERE SHOULD BE NO EXPOSURE OR CONTACT WITH THE ACTIVE INGREDIENT PER SE.

SECTION 5: HEALTH HAZARD DATA

ACGIH Threshold Limit Value	Soluble iron salt: 1mg (Fe)/M3, Probably lethal Oral dose (human) 0.5-5 g/kg
Symptoms of Exposure	Nausea and vomiting
Medical Cond. Aggravated by Exposure	Given orally, ferric and ferrous salts induce Essentially the same toxic syndrome
Primary Route(s) of Entry	Ingestion, Inhalation, Skin contact.
Emergency First Aid	Skin: Flush thoroughly with water; wash with soap and water. Eyes: Flush with copious amounts of water for 15 minutes. Get medical attention. If respiratory failure occurs, give artificial respiration.

SECTION 6: REACTIVITY DATA

Stable	Yes
Conditions to Avoid	Fire or excess heat
Incompatibility	NA
Hazardous Polymerization	Will not occur.
Conditions to Avoid (Re: Polymeriz.)	NA
Hazardous Decomposition Products	NO _x , Fe ⁺ , ammonia gas

SECTION 7: ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response	Avoid breathing dust. Use appropriate respirator if contact is experienced with more than 10 lbs. of the contents of the encapsulated implants. Use gloves, goggles and lab coat. Wash area exposed with soap and water.
Waste Disposal Method	Dispose of in an approved landfill or send to a Licensed treatment storage and disposal facility.

NA = Not Applicable

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SECTION 8: SPECIAL PROTECTION INFORMATION

- Eye Protection Goggles – Not required when handling the encapsulated implants.
- Skin Protection Rubber gloves – not required when handling the encapsulated implants.
- Respiratory Protection Approved respirator –Not required when handling the encapsulated implants.
- Ventilation Recommended If contents are exposed, provide adequate local exhaust (75-100 CFM).
- Other Protection Lab coat – if exposed to more than 10 lbs of contents.

SECTION 9: SPECIAL PRECAUTIONS

- Handling & Storage Keep containers closed until ready for use. Reseal when not in use and if not totally used. Store in the general chemical and fertilizer storage area. Protect against physical damage. There is no need to open the encapsulated implants.
- Other Precautions Per Section 7 (above) – when handling large quantities (i.e. more than 10 lbs – or 5,000 implants) be sure to wear protective equipment.