

MEDICAP® MN

SYSTEMIC MANGANESE 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 0
Reactivity ... 0Flammability 0
Special Hazard ... NA

SECTION 1: GENERAL INFORMATION

Catalog Number MN4X25; MN12X5; MN1210
 Trade Name & Syn..... Manganese Sulfate
 Chemical Name & Syn. Manganese Sulfate
 Chemical Family Inorganic
 Formula MnO₄S.H₂O
 Molecular Weight 169.02
 DOT Shipping Name NA
 DOT Number NA
 CAS Number 10034-96-5

SECTION 2: HAZARDOUS INGREDIENTS

- * Manganese Sulfate TLV: 5mg (Mn) / m³
- * Subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372

SECTION 3: PHYSICAL DATA

Boiling Point (°C) NA
 Melting Point (°C) 57-117
 Specific Gravity (H₂O=1) 2.95
 Vapor Pressure (mm Hg) NA
 Percent Volatile by Vol (%) NA
 Vapor Density (Air=1) NA
 Evaporation Rate (BuAc=1) NA
 Solubility in Water (20°C) Soluble
 Appearance & Odor White crystals, no specific odor

NA = Not Applicable

Revision Date: 12/10/2007

SECTION 4: FIRE & EXPLOSION HAZARD DATA

Flash point (°F)	NA
Flammable Limits LEL %	NA
Flammable Limits UEL %	NA
Extinguishing Media	CO ₂ , foam or dry chemical.
Special Fire Fighting Proc.	Self contained breathing apparatus.
Unusual Fire & Expl. Hazards	When heated to decomposition it emits toxic fumes of SO _x .

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

SECTION 5: HEALTH HAZARD DATA

ACGIH TLV/OSHA PEL (TWA)	OSHA PEL TWA: 5 mg (Mn) / m ³
Toxicity Data	NA
Symptoms of Exposure	Manganese salts are poorly absorbed from the Digestive tract
Medical Cond. Aggravated by Exposure	Diabetes, kidney ailments
Carcinogenicity	Not known to cause cancer
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; if respiratory failure occurs, give artificial respiration

SECTION 6: REACTIVITY DATA

Stable	Yes
Conditions to Avoid	Fire or excess heat
Materials to Avoid	Acids, alkali and oxidizing agents
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	SO _x

SECTION 7: ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response	Avoid inhalation of compound. Use appropriate respirator, gloves, goggles and lab coat. contain the material. Wash area 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 Provide adequate general mechanical and local exhaust (75-100 CFM)
- Other Protection Lab coat

SECTION 9: SPECIAL PRECAUTIONS

- Handling & Storage Keep container tightly closed. Store in the general chemical storage area. Protect against physical damage. Handle carefully.
- Work/Hygienic Practices Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.