

MATERIAL SAFETY DATA TECHNICAL INFORMATION

SECTION I
IDENTIFICATION

CHEMICAL NAME & SYNONYMS: Soluble Fertilizer
CHEMICAL FAMILY: Inorganic Salts
PRODUCT USE: FERTILIZER-DRY. FOR FOLIAR OR SOIL APPLICATION.
TRADE NAME: **MN CAC 20** (Manganese Citric Acid Chelate Powder)
DESCRIPTION: 20% MN

SECTION II
CAS & TLV

INGREDIENTS	CAS NUMBER	THRESHOLD LIMIT VALUE
Manganese Sulfate	778587	5.00 mg Mn/m ³
Citric Acid	77929	15.00 mg/m ³

EFFECTS - ACUTE EXPOSURE: Can cause irritation of skin, eyes, and respiratory system.
EFFECTS - CHRONIC EXPOSURE: Can cause damage to respiratory system, urinary system, blood system, and reproductive system.

SECTION III
NORMAL
HANDLING
PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
PROTECTIVE EQUIPMENT
RESPIRATORY PROTECTION: Approved respirator per 29 CFR 1910.134
EYES: Goggles
GLOVES: Heavy-duty work gloves
OTHER: Long-sleeved shirts
VENTILATION REQUIREMENTS
Adequate to remove dust from the air
* NOTE - Hands, arms and face should be washed prior to eating, drinking, or smoking.

SECTION IV
EMERGENCY
AND FIRST AID
PROCEDURES

INHALATION: Remove to fresh air. Seek medical attention if discomfort continues.
SKIN: Flush with water. If irritation develops, call physician.
EYES: Flus with water for 15 minutes. Seek medical attention if irritation persists.
INGESTION: Seek medical attention immediately.

SECTION V
FIRE AND
EXPLOSION
HAZARD DATA

THIS PRODUCT IS NONCOMBUSTIBLE
This product is not a flammable material.
Special Firefighting Procedures or Fire Hazard: Wear self-contained breathing apparatus approved by NIOSH. Do not wash material into any streams, waterways, drainage ditches or storm sewers, etc. Impound liquids used in firefighting to prevent entry into streams, ditches, sewers, etc.

SECTION VI
SPILL AND
LEAKAGE
PROCEDURES

Remove All Sources of Ignition: Follow OSHA regulations for respirator use (See 29 CFR 1910.134). Shovel or sweep up and reuse. Use approved liquid spray to reduce dust when sweeping or shoveling.
Waste Disposal Method: Dispose of contaminated product, empty containers and materials used in cleaning up spills and leaks in a manner approved for this Material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures.

SECTION VII
SHIPPING DATA

D.O.T. CLASS IF ANY: N/A

SECTION VIII
REACTIVITY
DATA

STABLE: YES INCOMPATIBILITY: NONE CONDITIONS TO AVOID: Avoid contact with oxidizable materials.

SECTION IX
PHYSICAL DATA

THIS IS A SOLID MATERIAL WHICH IS SOLUBLE IN WATER.
COLOR & APPEARANCE: OFF-WHITE POWDER.