

**Material Safety Data Sheet**  
**J. R. Simplot Company**  
**AgriBusiness**

**M77021**

Trade Name: Che-Man 5% Mn  
Registration No: None

**SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Manufactured For:** J.R. Simplot Company  
PO Box 70013  
Boise, ID 83707  
**Product Name:** Che-Man 5% Mn  
**Common Name:** Fully Chelated Manganese  
**Chemical Type:** Mineral

**Emergency Phone - Chemtrec:** 1-800-424-9300

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name and Synonyms                                    | C.A.S. No. | Chemical Formula | WT%<br>Hazardous     | TLV        | PEL        |
|---|------------|------------------|----------------------|------------|------------|
| None listed   |            |                  |                      |            |            |
|   |            |                  | <b>Non-Hazardous</b> |            |            |
| Dipotassium Salt of Manganese ethylenediaminetetraacetic acid | 60815-77-0 | Not listed       | 44 – 46%             | Not listed | Not listed |
| Water   | 7732-18-5  | H <sub>2</sub> O | 52 – 54%             | Not listed | Not listed |

**SECTION 3 HAZARDS IDENTIFICATION**

**Ingestion:** Single dose oral toxicity is low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing larger amounts may cause injury.

**Inhalation:** Water is the only volatile component and it's vapors are not hazardous.

**Eye Contact:** May cause pain. May cause slight transient (temporary) eye discomfort.

**Skin Absorption:** A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

**Skin Contact:** Prolonged exposure not likely to cause significant skin aggravation. Repeated exposure may cause skin distress.

**Effects of Overdose:** No toxicologic effects were observed in laboratory animals fed the sodium salt of EDTA. The trisodium salt of EDTA did not cause cancer in laboratory animals. Birth defects are unlikely. EDTA and it's sodium salts have been reported to cause birth defects in laboratory animals only at exaggerated doses that were toxic to the mother. These effects are likely associated with zinc deficiency due to chelation. Exposures having no effect on the mother should have no effect on the fetus. Based on limited data, not likely to affect reproduction. Most data indicate that EDTA and it's salts are not mutagenic. Minimal effects reported are likely due to trace metal deficiencies resulting from chelation by EDTA.

**SECTION 4 FIRST AID MEASURES**

**Ingestion:** Induce vomiting if large amounts are ingested. Consult medical personnel.

**Inhalation:** No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

**Eyes:** Flush eyes with plenty of water. Consult medical personnel if needed.

**Skin:** Wash off in flowing water or shower.

**SECTION 5 FIRE FIGHTING MEASURES**

**Extinguishing Media:** Water fog, CO<sub>2</sub>, dry chemical.

**Special Fire Fighting Procedures:** Wear positive-pressure, self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Not available.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Environmental Precautions:** Keep out of water supplies and all bodies of water.

**Steps to be taken in case material is released or spilled:**  
Soak up with absorbent material and scoop into drums. Wash away any residue with soap and water. Do not allow washings to enter public water supplies.

**SECTION 7 HANDLING AND STORAGE**

**Precautions to be taken in handling and storing:**  
Practice reasonable care and caution. Avoid breathing mists if generated. Contact with steel or aluminum produces flammable hydrogen gas.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ventilation Protection:** Good general ventilation should be sufficient for most conditions.

**Respiratory Protection:** No respiratory protection should be needed.

**Protective Clothing:** For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

**Eye Protection:** Use safety glasses.

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**PHYSICAL AND CHEMICAL PROPERTIES**

|                             |  |                                 |                          |
|-----------------------------|--|---------------------------------|--------------------------|
| <b>Boiling Point:</b>       | 217°F, 103°C                               | <b>Solubility in Water:</b>     | Completely miscible      |
| <b>Specific Gravity:</b>    | 1.26 @ 25°C                                | <b>% Volatiles (by volume):</b> | Not applicable           |
| <b>Vapor Density:</b>       | Same as H <sub>2</sub> O                   | <b>Vapor Pressure:</b>          | Same as H <sub>2</sub> O |
| <b>Flashpoint:</b>          | None                                       | <b>Appearance:</b>              | Reddish-brown liquid.    |
| <b>pH:</b>                  | 7 to 8                                     | <b>Reaction with Water:</b>     | None                     |
| <b>Extinguishing Media:</b> | Water fog, CO <sub>2</sub> , dry chemical. |                                 |                          |

**SECTION 10**

**STABILITY AND REACTIVITY**

**Stability (Normal Conditions):** Stable under normal storage and use conditions.  
**Conditions to Avoid:** Not listed  
**Incompatibility (Material to Avoid):** Contact with steel or aluminum produces hydrogen.  
**Hazardous Decomposition Products:** Ammonia, nitrogen oxides under fire conditions.  
**Hazardous Polymerization:** Will not occur

**SECTION 11**

**TOXICOLOGY INFORMATION**

**Ingestion:** The oral LD<sub>50</sub> for rats was >2,000 mg/kg.  
**Skin Absorption:** The dermal LD<sub>50</sub> has not been determined.

**SECTION 12**

**ECOLOGICAL INFORMATION**

None listed.

**SECTION 13**

**DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:** Do not dump into any sewers, on the ground, or into any body of water. For unused or uncontaminated material, the preferred management options are to send to a licensed recycler, reclaimer, or incinerator. The same management options are recommended for used or contaminated material, although additional evaluation is required. (See for example, 40CFR Part 261, "Identification and Listing of Hazardous Waste.") Any disposal practice must be in compliance with federal, state, provincial, and local laws and regulations.

**SECTION 14**

**TRANSPORT INFORMATION**

|                                 |                         |                       |                   |
|---------------------------------|-------------------------|-----------------------|-------------------|
| <b>Shipping name:</b>           | Not regulated by D.O.T. | <b>C.A.S. Number:</b> | See "Ingredients" |
| <b>Hazard Class:</b>            | None                    | <b>D.O.T. Number:</b> | None              |
| <b>Reportable Quantity(RQ):</b> | None                    | <b>Haz Waste No:</b>  | None              |
| <b>Labels Required:</b>         | None                    | <b>EPA Regist No:</b> | None              |
| <b>Placard:</b>                 | None                    |                       |                   |

**SECTION 15**

**REGULATORY INFORMATION**

**Carcinogenicity:** by IARC?: Yes ( ) No (X) by NTP?: Yes ( ) No (X)  
The trisodium salt of EDTA did not cause cancer in laboratory animals.

This product contains manganese (6.0%), CAS No. 7439-96-58, which is subject to reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**SECTION 16**

**OTHER INFORMATION**

|                                   |                |                         |              |              |
|-----------------------------------|----------------|-------------------------|--------------|--------------|
| <b>Flash Point (Test Method):</b> | Non-flammable  | <b>Flammable Limits</b> | <b>LOWER</b> | <b>UPPER</b> |
| <b>Autoignition Temperature:</b>  | Not applicable | (% BY VOLUME)           | N/A          | N/A          |

**MSDS Version Number:** 5 (revision to Section 1)

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**Reviewed by:** The Environmental Health & Safety Department  
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