

**MATERIAL SAFETY DATA SHEET**

Total Solutions  
P.O. Box 240014  
Milwaukee, WI 53224



GENERAL INFORMATION NUMBER: (414) 354-6417  
CHEMTREC: (800) 424-9300

REVISION DATE: September 18, 2003  
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**I - Product Identification****Chelated Iron**

**PRODUCT CODE:** 0133

**CHEMICAL FORMULATION:** Water based soil supplement.

**NFPA HAZARD IDENTIFICATION SYSTEM:**      **HEALTH:** 0      **FLAMMABILITY:** 0      **REACTIVITY:** 0  
**HAZARD RATING:**                      4 - Extreme;                      3 - High;                      2 - Moderate;                      1 - Slight;                      0 - Insignificant

**II - Hazardous Ingredients**

Values reported as TWA unless noted.

<u>SUBSTANCE</u>	<u>APPROX</u>	<u>OSHA</u>	<u>ACGIH</u>	<u>EPA 40 CFR:</u>			<u>CAS #</u>
	<u>%</u>	<u>PEL</u>	<u>TLV</u>	<u>302</u>	<u>355</u>	<u>372</u>	

Contains no hazardous components as defined in 29 CFR 1910.1200

Key: **PEL:** Permissible Exposure Limit      **TLV:** Threshold Limit Value      **C:** Ceiling level      **STEL:** Short Term Exposure Limit  
**N/A:** Not Applicable      **N/D:** Not Determined      **N/E:** Not Established      **Y:** Yes      **N:** No  
**302:** CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).  
**355:** SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).  
**372:** SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

**III - Physical Data**

**BOILING POINT (°F):** N/D

**SPECIFIC GRAVITY (WATER = 1):** 1.178

**VAPOR PRESSURE (mm Hg):** N/D

**VOC CONTENT (% by weight):** N/A

**VAPOR DENSITY (AIR = 1):** N/D

**EVAPORATION RATE (WATER = 1):** N/D

**SOLUBILITY IN WATER:** Soluble

**pH:** 2.20-3.20

**APPEARANCE AND ODOR:** Muddy, dark brown liquid; pungent odor.

**IV - Fire and Explosion Hazard Data**

**FLASH POINT (°F):** None

**(TEST METHOD):** Closed cup

**FLAMMABLE LIMITS IN AIR (VOLUME %)**

**UPPER:** N/A

**LOWER:** N/A

**EXTINGUISHING MEDIA:** Water spray, carbon dioxide, dry chemical.

**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARD:** None

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**V - Reactivity Data**

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**STABILITY:** Stable**INCOMPATIBILITY:** Strong oxidizing agents.**CONDITIONS TO AVOID:** None**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon.**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None

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**VI - Health Hazard Data**

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**ROUTES OF ENTRY INHALATION: EYE CONTACT: X SKIN CONTACT: X INGESTION: X****INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** None.**EFFECTS OF OVEREXPOSURE****IF IN EYES:** Mild irritation.**IF ON SKIN:** Mild irritation with prolonged or repeated use.**IF SWALLOWED:** Nausea, diarrhea.**IF INHALED:** None known under normal use.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. Obtain medical attention, if irritation persists.**IF ON SKIN:** Flush with soap and water. Launder clothing separately before reuse. Obtain medical attention, if irritation persists.**IF SWALLOWED:** Contact a physician or poison control center. Rinse mouth with water. Give affected person 1 to 2 glasses of water.

Never give anything by mouth to an unconscious person.

**IF INHALED:** Remove person to fresh air.

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**VII - Spill or Leak Protection**

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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Soak up material with inert absorbent material or flush away with water.**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

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**VIII - Special Protection Information**

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**RESPIRATORY PROTECTION:** Use with adequate ventilation.**VENTILATION****LOCAL:** Not required**MECHANICAL:** Not required**PROTECTIVE GLOVES:** Chemical resistant.**EYE PROTECTION:** Safety glasses or chemical goggles.**OTHER PROTECTIVE EQUIPMENT:** None.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool dry place. Keep container tightly closed when not in use.**OTHER PRECAUTIONS:** Keep out of reach of children.

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**IX - Transportation Information (ground transportation only)**

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**DOT PROPER SHIPPING NAME:** None**DOT CLASS:** None**DOT ID NUMBER:** None**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (&lt; 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, &amp; mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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