



245 Industrial Street  
(661) 327-9604  
E-mail: [westernnutrients@lightspeed.net](mailto:westernnutrients@lightspeed.net)

Bakersfield, California 93307  
FAX (661) 327-1740

(800)542-6664  
California Only

Website: [www.westernnutrients.net](http://www.westernnutrients.net)

## **MATERIAL SAFETY DATA SHEET**

Product Name: START UP IRON & MANGANESE CHELATE  
Date: 7/23/08

Page 1 of 2

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: START UP IRON & MANGANESE CHELATE  
CHEMICAL/Common Name: Fertilizing compound liquid  
CASE NO: This product is a mixture – there is no specific CAS number

MANUFACTURER: WESTERN NUTRIENTS CORPORATION  
245 INDUSTRIAL STREET  
BAKERSFIELD, CALIFORNIA 93307  
(661) 327-9604

EMERGENCY PHONE NUMBER : CHEMTREC (800) 499-9300

### SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL
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### SECTION 3 - PHYSICAL/CHEMICAL DATA

APPEARANCE: DARK REDDISH BROWN LIQUID  
BOILING POINT: 215° F  
VAPOR PRESSURE: n/a  
VAPOR DENSITY (AIR=1): <1.0  
WATER SOLUBILITY: Complete, Miscible

ODOR: AMMONIA  
SPECIFIC GRAVITY: 1.225  
PH: 10.1  
% VOLATILE: N/A  
EVAPORATION RATE: Same as water

**HAZARD RATING:** HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 0  
[0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme]

### SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not Combustible TEST METHOD: Not pertinent  
FLAMMABLE LIMITS: LEL: Not pertinent UEL: Not pertinent  
EXTINGUISHING MEDIA: Not pertinent  
SPECIAL FIRE FIGHTING PROCEDURES: Wear positive pressure, self-contained breathing apparatus and goggles.  
Contain any liquid runoff.  
UNUSUAL FIRE & EXPLOSION HAZARDS: None

### SECTION 5 - FIRST AID DATA

EYES: Flush immediately with water for at least 15 minutes. Call a physician if eye irritation persists  
SKIN: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. See a physician if skin becomes irritated.  
INGESTION: If conscious and alert, drink water or milk to dilute, and then induce vomiting. Call a physician or Poison Control Center immediately.  
INHALATION: Move to fresh air. If breathing becomes difficult, call a physician.

AG PRODUCTS

AGRICULTURE

HUMIC ACIDS

HORTICULTURE

HYDROPONICS

LAWN & GARDEN

GOLF & TURF  
FULL PRODUCT  
LINES

FOLIAR  
FERTILIZERS

FOLIAR  
MICROFERTIGATION

DRIP SYSTEM  
PRODUCTS

CUSTOM  
MANUFACTURING

CUSTOM  
PACKAGING

CUSTOM  
BLENDING

SOIL  
AMENDMENTS

SOIL PENETRANTS

PRODUCT  
DEVELOPMENT

REGISTRATION

OMRI REGISTERED  
PRODUCTS



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Page 2 of 2

#### SECTION 6 - REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY: Low pH Acid & Calcium

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: Not known

CONDITIONS TO AVOID: None known

#### SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Contain spill, absorb liquids by covering with absorbent material. Vacuum or sweep waste. Place in container.

WASTE DISPOSAL METHOD:

Material which cannot be used at the site should be disposed of following all applicable Federal, State and local regulations.

#### SECTION 8 - SPECIAL PROTECTION INFORMATION

EYES: Chemical dust / splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.

SKIN: Impervious gloves and clothes.

RESPIRATORY: Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator

VENTILATION: Recommended but no TLV established

OTHER PROTECTIVE EQUIPMENT: Wear clothing consistent for handling and applying fertilizer.

#### SECTION 9 - SPECIAL PRECAUTIONS

Store in cool dry area away from children, food, and feed products.

Protect from freezing.

Avoid contamination and spills.

Avoid contact with eyes, skin, and clothing.

Avoid inhalation.

Wash hands thoroughly before eating or smoking.

#### SECTION 10 - REGULATORY COMMENTS

NOTE: This information is based on available evidence known to Western Nutrients Corporation. It is provided solely to comply with OSHA'S Hazard Communications Standard, but without warranty, expressed or implied.