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(800)542-6664  
California Only

## MATERIAL SAFETY DATA SHEET

AG PRODUCTS

Product Name: **START UP IRON & MANGANESE CHELATE**

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AGRICULTURE

Date: 06/19/14

HUMIC ACIDS

### **SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

HORTICULTURE

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

HYDROPONICS

LAWN & GARDEN

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

GOLF & TURF  
FULL PRODUCT  
LINES

EMERGENCY PHONE NUMBER: CHEMTREC (800) 499-9300

FOLIAR  
FERTILIZERS

### **SECTION 2 – HAZARDOUS INGREDIENTS**

FOLIAR  
MICROFERTIGATION

CHEMICAL	CAS NO.	%	TLV OR PEL
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DRIP SYSTEM  
PRODUCTS

### **SECTION 3 - PHYSICAL/CHEMICAL DATA**

CUSTOM  
MANUFACTURING

APPEARANCE: DARK REDDISH BROWN LIQUID	ODOR: AMMONIA
BOILING POINT: 215° F	SPECIFIC GRAVITY: 1.225
VAPOR PRESSURE: N/A	PH: 10.1
VAPOR DENSITY (AIR=1): <1.0	% VOLATILE: N/A
WATER SOLUBILITY: Complete, Miscible	EVAPORATION RATE: Same as water

CUSTOM  
PACKAGING

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

CUSTOM  
BLENDING

### **SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

SOIL  
AMENDMENTS

FLASH POINT: Not Combustible      TEST METHOD: Not pertinent  
FLAMMABLE LIMITS: LEL: Not pertinent      UEL: Not pertinent

SOIL PENETRANTS

EXTINGUISHING MEDIA: Not pertinent  
SPECIAL FIREFIGHTING PROCEDURES: Wear positive pressure, self-contained breathing apparatus and goggles.  
Contain any liquid runoff.  
UNUSUAL FIRE & EXPLOSION HAZARDS: None

PRODUCT  
DEVELOPMENT

REGISTRATION

### **SECTION 5 - FIRST AID DATA**

OMRI REGISTERED  
PRODUCTS

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.



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#### **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 and 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.