



## MATERIAL SAFETY DATA SHEET

Ironman 3.8% Fe

MSDS Date of Issue: 3/1/07

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Ironman 3.8% Fe  
**PRODUCT CODE(S):** 3002870, 3002880, 3002890

**MANUFACTURER / DISTRIBUTOR:** TerraLink Horticulture Inc.  
**ADDRESS:** 464 Riverside Road, Abbotsford, BC. Canada V2S 7M1  
**PHONE:** 604-864-9044

**24 HOUR CEDA EMERGENCY PHONE:** 604-540-4100  
**CHEMICAL SPILLS:** 800-663-3456

**PRODUCT USE:** Fertilizer  
**PREPARED BY:** Regulatory Affairs  
**REVISION DATE:** June 7, 2011.

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>REPORTABLE INGREDIENT(S)</u>	<u>CAS NO.</u>	<u>EXPOSURE LIMITS OSHA PEL-TWA</u>	<u>% VOL/WT</u>
Nitritotriacetic acid	139-13-9	10 mg/m <sup>3</sup>	0-1

### SECTION 3: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**CAUTION: KEEP OUT OF REACH OF CHILDREN**

**ROUTES OF ENTRY:** Eyes, skin, inhalation, ingestion

#### ACUTE HEALTH EFFECTS

**EYES:** Irritation. Inflammation of the eye is characterized by redness, watering and itching.

**SKIN:** Possible mild irritation or staining.

**INGESTION:** Irritation of tissues.

**INHALATION:** Irritation of tissues.

**CHRONIC HEALTH HAZARDS:** Nitritotriacetic acid is listed as a carcinogen by NTP, under conditions of chronic exposure.

**CARCINOGENICITY:** listed by NTP

### SECTION 4: FIRST AID MEASURES

**EYES:** Flush eyes with water for 20 minutes. If irritation persists, seek medical attention.

**SKIN:** Flush with water. Remove contaminated clothing and wash before reuse.

**INGESTION:** Aspiration hazard. Get medical attention immediately. Do not induce vomiting or give anything by mouth. If victim is drowsy or unconscious, lay victim on side with the head down.

**INHALATION:** Remove victim to fresh air. Restore or support breathing as required. Keep victim warm and at rest. Seek medical aid.

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### SECTION 5: FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Not flammable. Use extinguishing agents for surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** As would be used for surrounding fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** NA

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Leak and Spill Procedures:** Wear recommended protective equipment. Dike the spill and pickup absorbants. May be diluted with large amounts of water.

**SECTION 6 NOTES:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

### SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:** Store in cool, dry, well ventilated area. Do not freeze. Do not breath vapours or mist. Wear recommended protective equipment. Protect eyes, skin and clothing from contact with this product.

**OTHER PRECAUTIONS:** May be toxic to fish and other aquatic organisms. Do not contaminate water supplies by handling and storage of product. Drift or runoff may adversely affect aquatic invertebrates and non-target plants.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING / VENTILATION CONTROLS:** General ventilation. Keep eyewash handy.

**RESPIRATORY PROTECTION:** Dust respirator.

**EYE PROTECTION:** Dust or splash-proof chemical safety goggles or face shield.

**SKIN PROTECTION:** Rubber or Nitrile gloves, long sleeve shirt and pants or coveralls, boots and/or other resistant protective clothing. Have a safety eyewash fountain readily available in the work area.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Dark red liquid

**ODOR:** Rusty odour

**PHYSICAL STATE:** Liquid

**pH AS SUPPLIED:** 7-8

**pH (Other):** NA

**BOILING POINT:** >100<sup>0</sup> C (212<sup>0</sup> F)

**MELTING / FREEZING POINT:** <0<sup>0</sup> C (32<sup>0</sup> F)

**VAPOR PRESSURE (mmHg):** NA

**VAPOR DENSITY (AIR = 1):** NA

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.27

**EVAPORATION RATE:** NA

**BASIS (=1):** NA

**SOLUBILITY IN WATER:** Miscible

**PERCENT SOLIDS BY WEIGHT:** NA

**PERCENT VOLATILE:** NA

**VOLATILE ORGANIC COMPOUNDS (VOC):** NA

**WITH WATER:** NA      **LBS/GAL**

**WITHOUT WATER:** NA      **LBS/GAL**

**MOLECULAR WEIGHT:** NA

**DENSITY:** NA

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### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** Stable

**CONDITIONS TO AVOID (STABILITY):** Mixing with incompatible materials.

**INCOMPATIBILITY (MATERIAL(S) TO AVOID):** Strong acids or bases, strong oxidizers.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur

### SECTION 11: TOXICOLOGICAL INFORMATION

**Effects of Chronic Exposure:**

Nitrotriacetic acid is listed as a carcinogen by NTP, under conditions of chronic exposure.

**Exposure limits:** 10 mg/m<sup>3</sup> (8 hour TWA, Total inhalable dust)

**Irritancy of product:** as described in acute exposure.

**Sensitization of product:** no data available

**Carcinogenicity:** listed by NTP

**Reproductive toxicity:** negative

**Teratogenicity:** negative

**Mutagenicity:** negative

**Synergistic products:** none reported

### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** NA

### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Dispose of according to local, provincial and federal government requirements.

**RCRA HAZARD CLASS:** NA

### SECTION 14: TRANSPORT INFORMATION

**CANADIAN TDG DESCRIPTION (Road and Rail):** Not regulated for transport by Road/Rail in Canada. Contact manufacturer for updates to transport information.

### SECTION 15: REGULATORY INFORMATION

**WHMIS HAZARD CLASS:** Class D-2B TOXIC



**SECTION 15 NOTES:** This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

### SECTION 16: OTHER INFORMATION

**ADDITIONAL INFORMATION:**

Abbreviations used throughout the MSDS are:

- NA = Not available
- NAb = Not available for blend
- NAp = Not applicable
- N/E = None established

Company references utilized in preparation of the MSDS.

**DISCLAIMER:**



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