

## Enviro Iron

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Enviro Iron
<b>Other Means of Identification</b>	Fertilizer
<b>Recommended Use</b>	The user should seek the advice of the county agricultural representative or a professional agricultural consultant.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer/Supplier Identifier</b>	NutriAg Limited, 39 Gail Grove, Toronto, Ontario, M9M 1M5
<b>Emergency Phone No.</b>	Canutec, 613-996-6666, 24 hours
<b>SDS No.</b>	0251
<b>Date of Preparation</b>	July 14, 2017

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Skin irritation - Category 2; Eye irritation - Category 2

#### Label Elements



Signal Word:

Warning

Hazard Statement(s):

Causes skin irritation.

Causes serious eye irritation.

Contains 2-3% of ingredients of unknown toxicity (Oral).

Contains 22-23% of ingredients of unknown toxicity (Dermal).

Contains 25-26% of ingredients of unknown toxicity (Inhalation).

Precautionary Statement(s):

Prevention:

Wash hands and skin thoroughly after handling.

Wear protective gloves, protective clothing, eye protection, face protection.

Response:

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Specific treatment is advised - see first aid instructions.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Storage:

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Store in original containers.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other Hazards

Hazard Not Otherwise Classified (HNOC).

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Ferrous Sulphate Heptahydrate	7782-63-0	18-19	N/A	

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

##### Skin Contact

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. If skin irritation occurs, get medical advice or attention.

##### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice or attention.

##### Ingestion

Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Drink plenty of water. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor.

##### First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

#### Most Important Symptoms and Effects, Acute and Delayed

May be harmful if inhaled. Causes respiratory tract irritation.

Causes skin irritation.

Causes eye irritation.

#### Immediate Medical Attention and Special Treatment

##### Target Organs

Eyes, skin, respiratory system.

##### Medical Conditions Aggravated by Exposure

None known.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

Not combustible. Use extinguishing agents compatible with product and suitable for surrounding fire.

##### Unsuitable Extinguishing Media

None known.

#### Specific Hazards Arising from the Product

Under fire conditions, anhydrous or hydrous forms of iron sulfate may release very toxic and corrosive sulfur dioxide

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and other sulfur oxides; iron and iron oxide fumes. Iron sulfate hydrates will build-up pressure inside containers when exposed to heat from a fire, which may cause explosive rupture and a sudden release of large amounts of hot steam and molten solid.

#### Special Protective Equipment and Precautions for Fire-fighters

Approach fire from upwind to avoid hazardous vapours or gases.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Restrict access to area until completion of cleanup. Ensure cleanup is conducted by trained personnel only. Wear adequate personal protective equipment.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Large spills or leaks: dike spilled product to prevent runoff. Remove or recover liquid using pumps or vacuum equipment. Do not return spilled product to its original container.

### Other Information

Report spills to local health, safety and environmental authorities, as required.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Transfer equipment should be constructed of chemical-resistant plastic or stainless steel. Do not store in aluminum or steel containers. Wear chemically protective equipment during handling. Use in a well-ventilated area. Do not breathe vapours or mists. Avoid contact with eyes, skin and clothing. Do not wear contact lenses while handling this material. Wash thoroughly after handling. Keep away from extreme heat and flame. Use caution when opening containers.

### Conditions for Safe Storage

Store in an area that is: well-ventilated. Store in the original, labelled, shipping container. Store at temperatures between 50 deg F (10 deg C) and 95 deg F (35 deg C).

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Ferrous Sulphate Heptahydrate	1 mg/m <sup>3</sup>					

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit.

### Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

#### Respiratory Protection

In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Clear green liquid.
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not available
<b>pH</b>	5 - 6 (1% solution)
<b>Melting Point/Freezing Point</b>	Not available (melting); Not available (freezing)
<b>Initial Boiling Point/Range</b>	Not available
<b>Flash Point</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	1.15 - 1.17 at 20 °C (68 °F)
<b>Solubility</b>	Soluble in water
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic); Not available (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>Bulk Density</b>	Not available

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Prolonged exposure to high temperatures. Freezing. Incompatible materials.

### Incompatible Materials

Strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide), oxidizing agents (e.g. peroxides).

### Hazardous Decomposition Products

During a fire, toxic carbon monoxide, carbon dioxide and other irritant gases and vapour, which may include unburned acid and toxic constituents may be generated.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Skin contact; eye contact; ingestion.

### Acute Toxicity

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Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Ferrous Sulphate Heptahydrate		> 2000 mg/kg (rat)	

**Skin Corrosion/Irritation**

Causes skin irritation.

**Serious Eye Damage/Irritation**

Causes serious eye irritation.

**STOT (Specific Target Organ Toxicity) - Single Exposure**

**Inhalation**

May be harmful if inhaled

May cause irritation to the respiratory tract.

**Skin Absorption**

No information was located.

**Ingestion**

May be harmful if swallowed.

**Aspiration Hazard**

Not known to be an aspiration hazard.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

Not known.

**Respiratory and/or Skin Sensitization**

Not known to be a respiratory sensitizer.

No information was located for skin sensitization.

**Carcinogenicity**

Not known to cause cancer.

**Reproductive Toxicity**

**Development of Offspring**

Not known to harm the unborn child.

**Sexual Function and Fertility**

Not known to cause effects on sexual function or fertility.

**Effects on or via Lactation**

Not known to cause effects on or via lactation.

**Germ Cell Mutagenicity**

Not known to be a mutagen.

**Interactive Effects**

None known.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Not established.

**Acute Aquatic Toxicity**

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Ferrous Sulphate Heptahydrate	0.41 mg/L (96-hour)			

**Persistence and Degradability**

Not established.

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**Bioaccumulative Potential**

Not Established.

**Mobility in Soil**

Not established.

**Other Adverse Effects**

There is no information available.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal Methods**

Dispose in accordance with all applicable federal, provincial, and local regulations.

**SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

**Other Information**      IMDG: Not regulated for transport.

**SECTION 15. REGULATORY INFORMATION****Safety, Health and Environmental Regulations****Canada****Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed, or not specifically listed.

**USA****Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed, or not specifically listed.

**SECTION 16. OTHER INFORMATION**

**SDS Prepared By**      NutriAg Limited

**Phone No.**              416-636-1555

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**Date of Last Revision** July 14, 2017

**Revision Indicators**    Version 1.0

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