

## Terra Ferra

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Terra Ferra
<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</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>	0423
<b>Date of Preparation</b>	January 07, 2022

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Skin irritation - Category 2; Serious eye damage - Category 1

#### Label Elements



Signal Word:

Danger

Hazard Statement(s):

Causes skin irritation.

Causes serious eye damage.

Contains 43-44% of ingredients of unknown toxicity (Inhalation).

Contains 33-34% of ingredients of unknown toxicity (Dermal).

Contains 21-22% of ingredients of unknown toxicity (Oral).

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.

Immediately call a POISON CENTRE or doctor.

Specific treatment is advised - see first aid instructions.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Storage:

Store in original containers

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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
Withheld as trade secret	Trade Secret	10-11	N/A	
Iron Sulfate	10028-22-5	10-11	N/A	
Withheld as trade secret	Trade Secret	8-9	N/A	

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.

##### Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation occurs, get medical advice or attention. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts).

##### 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

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

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

Maybe harmful if inhaled. May cause respiratory irritation. Maybe harmful if swallowed. Causes serious eye damage. Causes skin irritation.

#### Immediate Medical Attention and Special Treatment

##### Target Organs

Eyes, skin, respiratory system.

##### Special Instructions

None known.

##### Medical Conditions Aggravated by Exposure

Dermatitis.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

##### Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

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### Specific Hazards Arising from the Product

Does not burn.

In a fire, the following hazardous materials may be generated: carbon monoxide, carbon dioxide and nitrogen oxides. When heated to decomposition it may emit acrid smoke and fumes.

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

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

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

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

### 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.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

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: ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Withheld as trade secret	3 ppm	6 ppm				
Iron Sulfate	1 mg/m3		1 mg/m3			

### Appropriate Engineering Controls

General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists.

### 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

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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## Basic Physical and Chemical Properties

Odour	Sweet
Odour Threshold	Not available
pH	7 - 8 (1% solution)
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Boiling point/Initial boiling point	Not available
Boiling Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.25 - 1.26 at 20 °C (68 °F)
Solubility	Soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid

## 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

Freezing. Heat. Incompatible materials.

### Incompatible Materials

Metals (e.g. aluminum), oxidizing agents (e.g. peroxides), reducing agents (e.g. hydroquinone), strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide).  
Carbon steel, aluminum alloys.

### Hazardous Decomposition Products

When heated to decomposition it emits acrid smoke and irritating fumes.  
Carbon monoxide and carbon dioxide.  
Nitrogen Oxides.  
Sulfur oxides.

## 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)
Withheld as trade secret		1089 mg/kg (rat)	2504 mg/kg (rabbit)
Iron Sulfate		500 mg/kg (rat)	

#### Skin Corrosion/Irritation

Causes skin irritation.

#### Serious Eye Damage/Irritation

Causes serious eye damage.

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

##### Inhalation

May cause irritation to the respiratory tract.

##### Skin Absorption

May be harmful if absorbed through the skin.

##### Ingestion

May be harmful if swallowed.

#### Aspiration Hazard

Not known to be an aspiration hazard.

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

Symptoms may include dry, red, cracked skin (dermatitis).

#### Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer.

Not known to be a skin sensitizer.

#### 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

No information was located.

#### Germ Cell Mutagenicity

Not known to be a mutagen.

#### Interactive Effects

No information was located.

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Not established.

#### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Withheld as trade secret	> 200 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; flow-through)			

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**Persistence and Degradability**

Not established.

**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

**Date of Preparation**      January 07, 2022

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**Revision Indicators**      Version 1.0

**References**      CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).  
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).

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