

## MangaMax (CA)

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	MangaMax (CA)
<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>	0048
<b>Date of Preparation</b>	May 22, 2015

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Skin corrosion/irritation - Category 2; Serious eye damage/eye irritation - Category 1; Germ cell mutagenicity - Category 2

#### GHS Label Elements



Signal Word:

Danger

Hazard Statement(s):

Causes skin irritation.

Causes serious eye damage.

Suspected of causing genetic defects.

Contains 14-16% of ingredients of unknown toxicity (inhalation and dermal).

Contains 4-5% of ingredients of unknown toxicity (oral).

Precautionary Statement(s):

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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.

IF exposed or concerned: Get medical advice/attention.

Immediately call a POISON CENTRE/doctor.

Specific treatment (see supplemental first aid instruction on this label).

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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Storage:  
Store locked up.  
Disposal:

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

#### **Other Hazards**

Hazard Not Otherwise Classified (HNOC).

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>%</b>	<b>Other Identifiers</b>
Withheld as trade secret	CBI*	10-11	N/A
Withheld as trade secret	CBI*	4-5	N/A

### **SECTION 4. FIRST-AID MEASURES**

#### **First-aid Measures**

##### **Inhalation**

Move to fresh air. Get medical advice/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.

##### **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do.

##### **Ingestion**

Rinse mouth with water. Do not induce vomiting. Get medical advice/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.

Harmful if absorbed through skin. Causes skin irritation.

Causes eye irritation.

Harmful if swallowed.

#### **Immediate Medical Attention and Special Treatment**

##### **Target Organs**

Eyes, respiratory system, skin.

##### **Special Instructions**

Provide general supportive measures and treat symptomatically.

##### **Medical Conditions Aggravated by Exposure**

None known.

### **SECTION 5. FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

##### **Suitable Extinguishing Media**

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

##### **Unsuitable Extinguishing Media**

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

#### **Specific Hazards Arising from the Chemical**

By heating and fire, irritating vapours/gases may be formed.

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

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

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## 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

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

### Other Information

See Section 8 for personal protective equipment. For waste disposal, see section 13.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid repeated or prolonged skin contact. Do not get in eyes. Do not breathe in this product.

### Conditions for Safe Storage

Store in an area that is: well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity).

## 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	0.2 mg/m <sup>3</sup>			5 mg/m <sup>3</sup>		
Withheld as trade secret	Not established					

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

### Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

#### Skin Protection

Not required, if used as directed.

#### Respiratory Protection

Not normally required if product is used as directed. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

**Appearance** Dark brown.

**Odour** Fruity

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<b>Odour Threshold</b>	Not available
<b>pH</b>	1 - 2 (saturated 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 applicable
<b>Upper/Lower Flammability or Explosive Limit</b>	Not applicable (upper); Not applicable (lower)
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density (air = 1)</b>	Not applicable
<b>Relative Density (water = 1)</b>	1.20 - 1.21 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)

## 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

Incompatible materials.

### Incompatible Materials

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

### Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhalation.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Withheld as trade secret		782 mg/kg (rat)	

### Skin Corrosion/Irritation

May cause skin irritation.

### Serious Eye Damage/Irritation

Causes serious eye damage.

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

#### Inhalation

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May be harmful if inhaled.

**Skin Absorption**

May be harmful if absorbed through the skin.

**Ingestion**

May be harmful if swallowed.

**Aspiration Hazard**

Not classified.

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

Not classified.

**Respiratory and/or Skin Sensitization**

Not classified.

**Carcinogenicity**

Not classified.

**Reproductive Toxicity**

**Development of Offspring**

Not Classified.

**Sexual Function and Fertility**

Not Classified.

**Effects on or via Lactation**

No information was located.

**Germ Cell Mutagenicity**

May be mutagenic.

**Interactive Effects**

No information was located.

**SECTION 12. ECOLOGICAL INFORMATION**

**Persistence and Degradability**

No information was located.

**Bioaccumulative Potential**

No information was located.

**Mobility in Soil**

No information was located.

**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. Empty containers retain product residue. Follow label warnings even if container appears to be empty.

**SECTION 14. TRANSPORT INFORMATION**

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

**SECTION 15. REGULATORY INFORMATION**

**Safety, Health and Environmental Regulations**

**Canada**

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**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**

**Date of Preparation** May 22, 2015

**Revision Indicators** Not applicable.

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