

## MangaMax

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	MangaMax
<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>	0047
<b>Date of Preparation</b>	August 25, 2015

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Skin irritation - Category 2; Serious eye damage - Category 1; Specific target organ toxicity (repeated exposure) - Category 2

#### Label Elements



Signal Word:

Danger

Hazard Statement(s):

Causes skin irritation.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

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

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

Precautionary Statement(s):

Prevention:

Do not breathe mist, vapours, spray.

Wash hands and skin thoroughly after handling.

Wear protective gloves.

Wear 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.

Get medical advice/attention if you feel unwell.

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.

Disposal:

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

#### Other Hazards

Hazard Not Otherwise Classified (HNOC).

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
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 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.

##### 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 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.  
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 Product

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

Product Identifier: MangaMax - Ver. 3  
Date of Preparation: August 25, 2015  
Date of Last Revision: February 14, 2018

## Special Protective Equipment and Precautions for Fire-fighters

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

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/m3			5 mg/m3		
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

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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Dark brown.
Odour	Fruity
Odour Threshold	Not available
pH	1 - 2 (1% solution)
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	1.20 - 1.23 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)

## 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**

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**

May cause damage to organs If inhaled.

**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**

Not Classified.

**Germ Cell Mutagenicity**

Not classified.

**Interactive Effects**

Not Classified.

**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	30.6 mg/L (Pimephales promelas (fathead minnow); 96-hour)			

**Persistence and Degradability**

No information was located.

**Bioaccumulative Potential**

No information was located.

**Mobility in Soil**

No information was located.

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Product Identifier: MangaMax - Ver. 3  
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## Other Adverse Effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## 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. 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**      August 25, 2015

**Date of Last Revision**      February 14, 2018

**Revision Indicators**      Version 3.3

The following SDS content was changed on August 25, 2015:

SECTION 2. HAZARD IDENTIFICATION; Classification.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS; Ingredient Information.

SECTION 11. TOXICOLOGICAL INFORMATION; STOT (Specific Target Organ Toxicity) - Repeated Exposure; Reproductive Toxicity.

The following SDS content was changed on November 23, 2015:

Eye/Face Protection; Eye/Face Protection; Individual Protection Measures; Eye/Face Protection; Skin Protection; Respiratory Protection.

The following SDS content was changed on November 21, 2016:

SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity.

The following SDS content was changed on January 26, 2017:

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES; pH; Relative Density.

SECTION 12. ECOLOGICAL INFORMATION; Ecotoxicity.

The following SDS content was changed on February 10, 2017:

SECTION 2. HAZARD IDENTIFICATION; Label Elements.

The following SDS content was changed on February 14, 2018:

Shipping Information; Other Information.

### Disclaimer

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