



# Material Safety Data Sheet

## KING GLOBAL X-TREM PRO-BIOTINE+

### SECTION 1. IDENTIFICATION

**Product Identifier** KING GLOBAL X-TREMPRO-BIOTINE+  
**Recommended Use** Fertilizer.  
**Manufacturer** King Global Nutrients Inc., 683 Montée Saint-François, Laval, QC, H7C 2S8, Sans frais :1-800-663-3429, www.kingglobal.ca  
**Supplier Identifier** King Global Nutrients Inc., 683 Montée Saint-François, Laval, QC, H7C 2S8, Sans frais :1-800-663-3429, www.kingglobal.ca  
**Emergency Phone No.** CANUTEC, 1-888-CAN-UTEC (226-8832), 613-996-6666 or \*666 on a cellular phone  
**SDS No.** 2017-01  
**Date of Preparation** March 17, 2017

### SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

**Classification**

Not classified under any hazard class.

**Label Elements**

Not Applicable

**Other Hazards**

Hazard Not Otherwise Classified (HNOC): None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Water	7732-18-5	49-51	
Corn, steep liquor	66071-94-1	46-48	
GLUCOSE	50-99-7	2-3	
Biuret	108-19-0	1-2	
Xylose	58-86-6	1-2	
Lysine, monohydrochloride	657-27-2	1-2	
Maltose	69-79-4	0-1	

### SECTION 4. FIRST-AID MEASURES

**First-aid Measures**

**Inhalation**

Move to fresh air. Get medical advice or attention if you feel unwell.

**Skin Contact**

Wash with plenty of water.

**Eye Contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion**

Rinse mouth with water. Get medical advice or attention if you feel unwell.

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## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

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

### Specific Hazards Arising from the Product

This product presents no unusual hazards in a fire situation.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

No special precautions are necessary.

### Environmental Precautions

It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Cover the spill surface with the appropriate type of foam to reduce the release of vapor.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

No special precautions are necessary.

### Conditions for Safe Storage

No special requirements for storage area.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### Appropriate Engineering Controls

General ventilation is usually adequate.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Not required.

#### Respiratory Protection

Not required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Light brown liquid.
<b>Odour</b>	Slight
<b>Odour Threshold</b>	Not available
<b>Melting Point/Freezing Point</b>	Not available (melting); Not available (freezing)
<b>Initial Boiling Point/Range</b>	100 °C (212 °F)
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not available

<b>Flammability (solid, gas)</b>	Not applicable
<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>	Not available
<b>Solubility</b>	Very 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

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None known.

### Conditions to Avoid

None known.

### Incompatible Materials

None known.

### Hazardous Decomposition Products

None known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Skin Corrosion/Irritation

Not a skin irritant.

### Serious Eye Damage/Irritation

Not an eye irritant.

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

#### Inhalation

Not harmful.

#### Skin Absorption

Not harmful.

#### Ingestion

No information was located.

### Respiratory and/or Skin Sensitization

No information was located.

### Carcinogenicity

Not a carcinogen.

## SECTION 12. ECOLOGICAL INFORMATION

### Eco Toxicity

Not harmful to aquatic life.

### Persistence and Degradability

No information was located.

### Bio Accumulative 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

Disposal into the regular trash is acceptable. Dispose of contents and container in accordance with local, regional, national and international regulations.

## SECTION 14. TRANSPORT INFORMATION

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

**Environmental Hazards** Not applicable

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

This section is not required by WHMIS.

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

#### USA

#### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

<b>NFPA Rating</b>	<b>Health - 0</b>	<b>Flammability - 0</b>	<b>Instability - 0</b>
<b>SDS Prepared By</b>	Technical Manager		
<b>Phone No.</b>	1 800-663-3429		
<b>Date of Preparation</b>	March 17, 2017		
<b>Date of Last Revision</b>	March 17, 2017		
<b>Key to Abbreviations</b>	IARC = International Agency for Research on Cancer		
<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).		

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HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes /BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).

**Additional Information** All information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations of mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. (Unless noted to the contrary, the technical information applies only to pure product). To our actual knowledge, the information contained herein is accurate as of the date of this document. However, neither King Global nor any of its affiliates makes any warranty, express or implied, or accepts any liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. The user alone must finally determine suitability of any information or material for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. This information gives typical properties only and is not to be used for specification purposes. King Global reserves the right to make additions, deletions or modifications to the information at any time without prior notification.

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