

## SAFETY DATA SHEET

### 1. Identification of the substance/preparation and Company

Product identifier used on the label:	ON-Gard
Other means of identification:	
Recommended use of the chemical and restrictions on use:	LIQUID FERTILIZER
Company Name:	BioWorks, Inc.
Company Address:	100 Rawson Road, Suite 205
Telephone Number:	800-877-9443
Company e-mail:	<a href="mailto:info@bioworksinc.com">info@bioworksinc.com</a>
Emergency phone number:	Contact the nearest Poison Control Center
e-mail of person responsible for SDS:	<a href="mailto:regulatory@bioworksinc.com">regulatory@bioworksinc.com</a>

### 2. Hazard Identification

Within the current knowledge of the supplier and in the concentrations recommended by Company, the product is not hazardous to human health or to the environment.  
 If large quantities of this fertilizer are eaten, the following can occur: vomiting, diarrhea, stomachache, convulsion, etc.  
 For more information about product effects on human health, read section 11.

### 3. Composition/information on Ingredients

The product is a preparation. It is a stable mixture of water and hydrolyzed vegetable protein.  
 Within the current knowledge of the supplier, other ingredients dangerous to human health or environment are not present.

### 4. First Aid Measures

Inhalation:	If inhaled, remove to fresh air. In the case of respiratory problems, seek medical assistance.	Skin Contact	Wash hands using water and soap. In case of irritation, seek medical assistance.
Eye Contact	In case of eye contact wash immediately with plenty of water. In case of irritation or other problems, seek medical assistance.	Ingestion	If swallowed clean mouth with water and drink large quantities of water.

### 5. Fire-fighting Measures

Suitable extinguishing media.	Non-combustible product. Use extinguishing measures that are appropriate to local circumstances and surrounding environment.
Unsuitable extinguishing media	None
Specific hazards arising from the chemical.	In case of fire don't breathe dust or vapors coming from combustion material. Dangerous decomposition products are nitrogen (N) oxides and carbon oxides.
Special protective equipment and precautions for fire-fighters.	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus.

## 6. Accidental Release Measures

Environmental precautions.	Avoid contamination of rivers and sewers. Inform appropriate authorities in case of waterway contamination. Avoid product dispersion by rain or wind.
Personal precautions, protective equipment, and emergency procedures.	If necessary, use appropriate protective equipment. Don't breathe dust or mist. Allow only clean-up personnel in contaminated area.
Methods and materials for containment and cleaning up.	Soak up spills with inert solids such as clay or diatomaceous earth as soon as possible. The absorbent material and product can be used as a fertilizer on a farm. After cleaning flush away traces with water.

## 7. Handling and Storage

Advice for safe handling.	Avoid dust formation. Otherwise, no special precautions required
Advice on protection against fire and explosion	The product is neither flammable nor explosive. No special protective measures against fire required.
Conditions for safe storage, including any incompatibilities.	Keep in a dry place. No special restrictions on storage with other products. Stable under recommended storage conditions.

## 8. Exposure Controls/Personal Protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit.	NA
Technical precautionary actions	Avoid dust/vapor formation. Provide adequate ventilation.
Respiratory protection	No special protective equipment required.
Eye protection	No special protective equipment required.
Skin protection	No special protective equipment required.
Hand protection	Not required under normal use.

## 9. Exposure Controls/Personal Protection

<b>Appearance (physical state, color, etc.):</b>	Green/brown liquid	<b>Upper/lower flammability or explosive limits:</b>	NA
<b>Odor:</b>	Vegetative	<b>Vapor pressure:</b>	Unknown
<b>Odor threshold:</b>	-	<b>Vapor density:</b>	Unknown
<b>pH (1:5 dilution):</b>	4	<b>Relative density:</b>	9.84 lbs/gallon (1.18 Kg/L)
<b>Melting point/freezing point:</b>	-	<b>Solubility:</b>	Soluble in water
<b>Initial boiling point and boiling range:</b>	-	<b>Partition coefficient: n- octanol/water:</b>	Unknown
<b>Flash point:</b>	NA	<b>Auto-ignition temperature:</b>	NA
<b>Evaporation rate:</b>	-	<b>Decomposition temperature:</b>	NA
<b>Flammability (solid, gas):</b>	Not flammable	<b>Viscosity:</b>	Unknown

## 10. Stability and Reactivity

<b>Reactivity:</b>	Stable
<b>Chemical stability:</b>	The product is stable under recommended storage and handling conditions.
<b>Incompatible materials:</b>	None known
<b>Possibility of hazardous reactions:</b>	No known hazardous reactions under conditions of normal use
<b>Hazardous decomposition products:</b>	No decomposition if stored and applied as directed.
<b>Conditions to avoid:</b>	None known

## 11. Toxicological Information

**Dangerous effects on human health:** within the current knowledge of the supplier and in the concentrations recommended by the Company, the product is not hazardous to human health or environment.

As of the date of this SDS, there are no known significant effects regarding carcinogenicity, mutagenicity, teratogenicity, negative fertility effects, or other dangerous effects on human health.

## 12. Ecological Information

<b>Ecotoxicity (aquatic and terrestrial, where available):</b>	This product is not dangerous to the environment if used as recommended by the supplier. Use only if necessary.
<b>Persistence and degradability:</b>	Biodegradable
<b>Bioaccumulative potential:</b>	None
<b>Mobility in soil:</b>	NA
<b>Other adverse effects:</b>	None known

## 13. Ecological Information

Within the present knowledge of the Company, the product is not considered as hazardous waste. Dispose the product and the packaging according to all applicable local and national laws.

## 14. Transport Information

The product is not classified as hazardous material according to the UN Orange Book. International transport codes (ADR, RID, IMDG, ADN) are not necessary.

## 15. Regulatory Information

None required.

## 16. Other Information

Version Number:	Version 3.0
Date of Last Revision:	April 17, 2015
BioWorks, Inc.	

### IMPORTANT NOTICE:

The data and information contained in this safety data sheet are based on our knowledge at the date of issue. The information of this SDS concerns only aspects about use, handling and storage of the product. The supplier does not assume any liability whatsoever for the accuracy or completeness of the information contained in this sheet. Final determination and use of suitability of product is completely the responsibility of the user. All chemical products may present unknown hazards and must be used with caution. The supplier does not guarantee that the hazards described in this safety data sheet are the only hazards that exist for this product. The supplier does not guarantee that this SDS contains all possible safety measures; in particular conditions it may be necessary to add some additional safety measures.