

Product Identifier: MAD FARMER™ N.U.T.S.™  
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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Mad Farmer™ N.U.T.S.™ (Nutrient UpTake Solution)

**Product Description:** Yellow-brown or light brown liquid having no characteristic odor. This product provides naturally occurring plant minerals obtained through cold water extraction from humic shale ore. It is not known to be hazardous, is generally used as a dietary mineral supplement for humans and livestock, and is used in agriculture as a mineral supplement. However, Mad Farmer™ N.U.T.S.™ is intended only for use as a mineral supplement for plants, and is not intended or designated for human consumption.

**Information provided by:** South Coast Horticultural Supply, Inc.  
 26895 Aliso Creek Road B685  
 Aliso Viejo, CA 92656

**Telephone:** (310) 947-6158

**In case of emergency call:** 911

**For transportation Emergency call CHEMTREC:** 800-424-9300

**2. COMPOSITION & INFORMATION ON INGREDIENTS**

Component	CAS#	OSHA Hazard	WT%	ACGIH		OSHA	
				TLV <sub>(TWA)</sub>	STEL	PEL <sub>(TWA)</sub>	STEL
Humic Acid and Fulvic acid (extracted from humic shale ore)	Not Applicable	Not Applicable	Not Available	Not Available	Not Available	Not Available	Not Available

**3. HAZARDS IDENTIFICATION**

NPFA 704 DESIGNATION HAZARD RATING	
4= Extreme	
3= High	
2= Moderate	
1= Slight	
0= Insignificant	

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**Emergency Overview:** A clear to slightly hazy, colorless, alkaline liquid having no characteristic odor. This product is not classified as a hazardous material. It should not have any adverse effects upon exposure, however, individual sensitivities and any pre-existing disorders may be affected. If individual sensitivities are found to occur upon exposure, the potential effects and their referenced treatment measures follow:

**POTENTIAL HEALTH EFFECTS**

**Inhalation:** Possible slight irritation (Inhalation of mists may be irritating to the nose, mouth, throat, mucous membranes and lungs).

**Eye Contact:** Possible eye irritant. (Overexposure to the mists or liquid may cause eye irritation).

**Skin Contact:** Possible slight irritation (Exposure to the mists or liquid may cause slight skin irritation).

**Ingestion:** If large amounts are taken it may cause nausea.

**Chronic Hazards:** None indicated.

**4. FIRST AID MEASURES**

**Inhalation:** If inhaled, immediately move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

**Eye Contact:** In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes (lifting the upper and lower lids occasionally. Remove contact lenses, if worn. Medical attention may be needed if irritation occurs/persists).

**Skin Contact:** In case of contact, flush skin with plenty of clean running water, and wash thoroughly with soap and water.

**Ingestion:** If swallowed, give plenty of water to drink. Call a physician. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Note to Physicians:** Treat exposure symptomatically.

**5. FIRE FIGHTING MEASURES**

**Flashpoint and Method:** Not applicable

**Flammable Limits (in air, % by volume):** Lower: Not applicable Upper: Not applicable

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**Autoignition Temperature:** Not applicable

**GENERAL HAZARD:** None indicated.

**Fire Fighting Instructions:**           **Extinguishing Media:** None

**Fire Fighting Equipment:** None indicated.

**Hazardous Combustion Products:** None indicated.

## 6. ACCIDENTAL RELEASE MEASURES

**Land Spill:** If uncontaminated, recover and reuse product. Dilute with water.

**Water Spill:** None indicated.

## 7. HANDLING AND STORAGE

**Storage Temperature:** Above 32°F (0°C)

**Storage Pressure:** Ambient

**General:** Precautionary Measures: no unusual precautions.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Measures:** When spraying in large quantities, work with adequate ventilation and/or use of a respirator.

**Recommended Personal Protective Equipment:**

**Respirator:** None indicated.

**Eyes:** None indicated.

**Gloves:** None indicated.

**Clothing and Equipment:** None indicated.

**Footwear:** None indicated.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Yellow-brown or light brown	<b>Bulk Density</b> (pounds/ft <sup>3</sup> ):	No data available
<b>Physical State:</b>	Liquid	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	No odor	<b>Vapor density (air=1):</b>	No data available

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<b>Odor Threshold:</b>	No data available	<b>Evaporation rate</b> (n-Butyl Acetate=1):	No data available
<b>Molecular Formula:</b>	No data available	<b>VOC Content:</b>	No data available
<b>Molecular Weight:</b>	No data available	<b>% Volatile:</b>	No data available
<b>Boiling Point:</b>	Greater than 100°C (212°F)	<b>Solubility in H2O:</b>	Complete
<b>Freezing/Melting Point:</b>	Less than 0°C (32°F)	<b>Octanol/Water Partition Coefficient:</b>	No data available
<b>Specific gravity:</b>	Approximately 1.020 ( @ 20°C)	<b>pH (as is):</b>	3.0
<b>Density (pounds/gallon):</b>	No data available	<b>pH (1% solution):</b>	No data available

## 10. STABILITY AND REACTIVITY

**General:** This product is believed to be stable and hazardous polymerization should not occur.

**Conditions to avoid:** Freezing conditions.

**Incompatible Material:** None indicated.

**Hazardous Decomposition Products:** None indicated.

**Sensitivity to Mechanical Impact:** This product is NOT sensitive to mechanical impact.

**Sensitivity to Static Discharge:** This product is NOT sensitive to static discharge.

## 11. TOXICOLOGICAL INFORMATION

<b>COMPONENTS:</b>	<b>Humic Acid and Fulvic Acid</b>
<b>Eye Contact:</b>	No data available
<b>Skin Contact:</b>	No data available
<b>Oral Rat LD<sub>50</sub>:</b>	No data available
<b>Dermal Rabbit LD<sub>50</sub>:</b>	No data available
<b>Inhalation Rat LC<sub>50</sub>:</b>	No data available
<b>Human Data:</b>	No data available
<b>Other Toxicological Data:</b>	No data available
<b>Carcinogenicity:</b>	No data available
<b>Teratogenicity:</b>	No data available
<b>Mutagenicity:</b>	No data available
<b>Synergistic Products:</b>	None reported
<b>Target Organs:</b>	No data available
<b>Medical Conditions Aggravated By Exposure</b>	No data available

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**12. ECOLOGICAL INFORMATION**

**Environmental Fate:** This product is soluble in water. No specific environmental fate data is available on this product. This product can affect the pH of water.

**Environmental Considerations:** None indicated.

**13. DISPOSAL CONSIDERATIONS**

**RCRA 40 CFR 261 Classification:** Non-Hazardous Waste

**U.S. EPA Waste Number/Description:** Not applicable

If this product is disposed of as shipped, it does not meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of a hazardous waste of Subpart C, nor is it listed as hazardous waste under Subpart D due to toxicity.

**14. TRANSPORTATION INFORMATION**

<b>DOT Proper Shipping Name:</b>	NOT RESTRICTED					
	<b>Hazard Class:</b>	Not applicable	<b>UN Number:</b>	Not applicable	<b>Packing Group:</b>	Not applicable
	<b>Primary Label:</b>	None required	<b>Subsidiary Label(s):</b>	None required		
	<b>Primary/Subsidiary Placards:</b>	None required				
<b>DOT Reportable Quantity (RQ):</b>	None listed	<b>RQ for Product:</b>	Not applicable			
<b>Marine Pollutant:</b>	No					
<b>2008 North American Emergency Response Guidebook No.:</b>				Not applicable		
<b>TDG Proper Shipping Name:</b>	NOT RESTRICTED					
	<b>Hazard Class:</b>	Not	<b>UN</b>	Not	<b>Packing</b>	Not

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		applicable	<b>Number:</b>	applicable	<b>Group:</b>	applicable
	<b>Primary Label:</b>	None required	<b>Subsidiary Label(s):</b>	None required		
	<b>Primary/Subsidiary Placards:</b>	None required				
<b>TDG Reportable Quantity (RQ):#</b>	Not applicable					
<b>TDG Schedule XII:</b>	Not applicable					
<b>Regulated Limit (RL):##</b>	None listed	<b>RL for Product:</b>	Not applicable			
<b>Other Shipping Information:</b>	None					
<p># Canadian Transportation of Dangerous Goods Regulations (TDGR), Part IX, Table 1, Quantities or levels for Immediate Reporting: releases of reportable quantities, RQ, that meet the definition of a "dangerous occurrence" (a threat to life, health, property, or the environment) must be reported to the appropriate authorities as outlined in TDGR 9.13(1) and 9.14(1).</p> <p>## Reporting to Environment Canada is required for any releases exceeding the regulated limits, RL, of 9.2 materials (primary or secondary). The regulated limits are found in Schedule XIII of the TDGR.</p>						

**15. REGULATORY INFORMATION**

<b>COMPONENTS:</b>	<b>Humic Acid and Fulvic Acid</b>
<b>OSHA Target Organs:</b>	Not applicable
<b>Carcinogenic Potential:</b>	
<b>Regulated by OSHA:</b>	No
<b>Listed on NTP Report:</b>	No
<b>Listed by IARC:</b>	No
<b>IARC group:</b>	Not applicable
<b>ACGIH Appendix A:</b>	Not listed
<b>A1 Confirmed Human:</b>	Not applicable
<b>A2 Suspected Human:</b>	Not applicable
<b>U.S. EPA Requirements:</b>	
<b>Release Reporting</b>	
<b>CERCLA (40 CFR 302)</b>	
<b>Listed Substance:</b>	Not listed
<b>Reportable Quantity:</b>	Not applicable
<b>Category:</b>	Not applicable
<b>RCRA Waste No:</b>	Not applicable
<b>Unlisted Substance:</b>	Not applicable
<b>Reportable Quantity:</b>	Not applicable

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Characteristic:	Not applicable
RCRA Waste No:	Not applicable
<b><u>SARA TITLE III</u></b>	
<b>Section 302 &amp; 303 (40 CFR 355):</b>	
<b>Listed Substance:</b>	Not listed
Reportable Quantity:	Not applicable
Planning Threshold:	Not applicable
<b>Section 311 &amp; 312 (40 CFR 370)</b>	
<b>Hazard Categories (product):</b>	
Fire:	N
Sudden Release of Pressure:	N
Reactive:	N
Acute Health:	N
Chronic Health:	N
Planning Threshold:	No data available
<b>Section 313 (40 CFR 372):</b>	
<b>Listed Toxic chemical:</b>	Not listed
Reporting Threshold:	Not applicable
<b><u>U.S. TSCA Status</u></b>	
<b>Listed (40 CFR 710):</b>	No data available
<b><u>State Regulations</u></b>	
Carcinogen:	No
Reproductive Toxin:	No
<b><u>Other Regulations</u></b>	
<b>State Right to Know Laws:</b>	
<b><u>Canadian Regulations</u></b>	
<b>Product Information:</b>	
Controlled Product:	No data available
WHMIS HAZARD Symbols:	No data available
WHMIS Class & Division:	No data available
<b>Ingredient Information:</b>	
IDL Substance:	No data available
DSL or NDSL lists:	No data available

**16. OTHER INFORMATION**

**EPA Registration number:** Not applicable

**Approved Product Uses:** Not applicable

**Special Notes:**

This product is not formulated to contain any material, which the state of California has found to cause cancer and/or birth defects or other reproductive harm.

**Special Instructions:**

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Store Mad Farmer™ N.U.T.S.™ in an area that is protected from freezing temperatures.

**MSDS Revision Information:** MSDS-N1

Updated April 27, 2012.

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All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the Update, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.