

Product Identifier: MAD FARMER™ DETOX FLUSH SOLUTION

Material Safety Data Sheet (MSDS)

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Mad Farmer™ Detox Flush Solution

Product Description: Light opaque liquid used as a chelating/sequestering/complexing agent; for removal of salt buildup in soil and water systems.

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

Telephone: (310) 947-6158

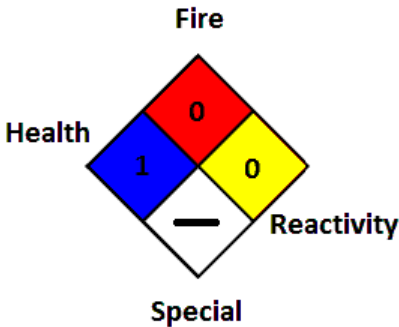
In case of emergency call: 911

For transportation Emergency call CHEMTREC: 800-424-9300

2. COMPOSITION & INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>OSHA Hazard</u>	<u>WT%</u>	<u>ACGIH</u>		<u>OSHA</u>	
				<u>TLV_(TWA)</u>	<u>STEL</u>	<u>PEL_(TWA)</u>	<u>STEL</u>
Trade Secret Blend of Polyhydroxy organic acids	Not Available	Not Applicable	40	Not Available	Not Available	Not Available	Not Available
Inert Ingredients	Not Available	Not Available	60	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	

Physical Hazards: None.

Health Hazards: Avoid eye and skin contact.

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Emergency Overview: A light opaque liquid having no indicated 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, remove patient to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Obtain medical attention.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes (Lifting the upper and lower lids occasionally. Remove contact lenses, if worn). If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel.

Skin Contact: In case of contact, immediately wash material off the skin with plenty of soap and water. If unable to wash immediately or if tingling, numbness or a burning sensation develops, apply skin cream or an oil-based solution to the affected area. If irritation persists, get medical attention.

Ingestion: If swallowed, provided the patient is conscious, wash out mouth with water (Never give anything by mouth to an unconscious person). Immediately contact medical personnel or an emergency facility. If spontaneous vomiting occurs, have patient lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water.

Note to Physicians: Provide symptomatic/supportive care as necessary.

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: Use appropriate procedures for underlying cause of fire.

Extinguishing Media: Use appropriate medium for underlying cause of fire.

Fire Fighting Equipment: Wear protective clothing and self-contained breathing apparatus.

Hazardous Combustion Products: None indicated.

6. ACCIDENTAL RELEASE MEASURES

Land Spill: Recover product and place in appropriate container for disposal. Avoid raising dust. Ventilate and wash area.

Water Spill: None indicated.

7. HANDLING AND STORAGE

Storage Temperature: None indicated.

Storage Pressure: None indicated.

General: Storage Conditions: Keep container tightly closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Measures: None indicated.

Recommended Personal Protective Equipment:

Ventilation: Not required under normal conditions.

Respirator: None required under normal conditions. Approved respirator to organic vapors if high concentrations are likely.

Eyes: Chemical goggles or face shield.

Skin: Wear rubber or neoprene gloves for transfer operations or where splashing may occur. If irritation occurs, impervious clothing and gloves should be worn.

Other Clothing and Equipment: Apron.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light opaque	Bulk Density (pounds/ft ³):	No data available
Physical State:	Liquid	Vapor Pressure:	No data available
Odor:	No data available	Vapor density (air=1):	No data available
Odor Threshold:	No data available	Evaporation rate (n-Butyl Acetate=1):	No data available
Molecular Formula:	No data available	VOC Content:	No data available
Molecular Weight:	No data available	% Volatile:	No data available
Boiling Point:	No data available	Solubility in H2O:	Highly Soluble
Freezing/Melting Point:	No data available	Octanol/Water Partition Coefficient:	No data available
Specific gravity:	No data available	pH (as is):	No data available
Density (pounds/gallon):	No data available	pH (1% solution):	No data available

10. STABILITY AND REACTIVITY

General: None indicated.

Conditions to avoid: None indicated.

Incompatible Material: None indicated.

Hazardous Decomposition Products: None indicated.

Sensitivity to Mechanical Impact: No data available

Sensitivity to Static Discharge: No data available

11. TOXICOLOGICAL INFORMATION

COMPONENTS:	Blend of Polyhydroxy organic acids
Eye Contact:	Mildly irritating (rabbit)
Skin Contact:	Non-irritation (rabbit). Not a contact sensitizer.
Oral Rat LD₅₀:	>5000 mg/Kg (male and female rats)
Dermal Rat LD₅₀:	>5000 mg/Kg (male and female rats)
Inhalation Rat LC₅₀:	>2.09 mg/L (male and female rats)
Human Data:	No data available
Other Toxicological Data:	No data available
Carcinogenicity:	No data available
Teratogenicity:	No data available
Mutagenicity:	No data available
Synergistic Products:	None reported

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Target Organs:	No data available
Medical Conditions Aggravated By Exposure	No data available

12. ECOLOGICAL INFORMATION

Environmental Fate: This product is highly soluble in water. No specific environmental fate data is available on this product.

Environmental Considerations: None indicated.

13. DISPOSAL CONSIDERATIONS

RCRA 40 CFR 261 Classification: Non-Hazardous Waste

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

Waste Disposal: Dispose of product in accordance with federal, state and local regulations.

Disposal Method: Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORTATION INFORMATION

DOT Proper Shipping Name:	NOT RESTRICTED; Not applicable.					
	Hazard Class:	Not applicable	UN Number:	Not Listed	Packing Group:	Not applicable
	Primary Label:	None required	Subsidiary Label(s):	None required		
	Primary/Subsidiary Placards:	None required				
DOT Reportable Quantity	None listed	RQ for Product:	Not applicable			

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(RQ):						
Marine Pollutant:	No					
2008 North American Emergency Response Guidebook No.:				Not applicable		
TDG Proper Shipping Name:	NOT RESTRICTED					
	Hazard Class:	Not applicable	UN Number:	Not applicable	Packing Group:	Not applicable
	Primary Label:	None required	Subsidiary Label(s):	None required		
	Primary/Subsidiary Placards:	None required				
TDG Reportable Quantity (RQ):#	Not applicable					
TDG Schedule XII:	Not applicable					
Regulated Limit (RL):##	None listed	RL for Product:	Not applicable			
Other Shipping Information:	None					
<small># 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). ## 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.</small>						

15. REGULATORY INFORMATION

COMPONENTS:	Blend of Polyhydroxy organic acids
OSHA Target Organs:	Not applicable
Carcinogenic Potential:	
Regulated by OSHA:	No
Listed on NTP Report:	No
Listed by IARC:	No
IARC group:	Not applicable
ACGIH Appendix A:	Not listed
A1 Confirmed Human:	Not applicable
A2 Suspected Human:	Not applicable

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

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16.OTHER INFORMATION

EPA Registration number: Not applicable

Approved Product Uses: Removal of salt buildup in soil and water systems.

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:

None

MSDS Revision Information: MSDS-D1

Updated November 9, 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.