

Product Identifier: MAD FARMER™ Get Up™
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Mad Farmer™ Get Up™ (pH Up)

Product Description: A clear, colorless liquid having no characteristic odor. Used to reduce the acidity of aqueous solutions in industrial operations and processes.

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 _(TWA)	STEL	PEL _(TWA)	STEL
Potassium Carbonate	584-08-7	Severe Eye irritant; Skin and Respiratory Irritant	11 +/- 2	None	None	None	None
Potassium Silicate	1312-76-1	Eye, Skin and Respiratory Irritant	1 +/- 5	None	None	None	None

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, colorless liquid having no characteristic odor. The liquid and mists can cause severe eye irritation and skin irritation. Inhalation of mists can cause irritation to the entire respiratory tract. This product is slightly toxic by ingestion. Ingestion may cause moderate to severe gastrointestinal tract irritation with the possible liberation of a large amount of Carbon Dioxide gas.

POTENTIAL HEALTH EFFECTS

Inhalation: Inhalation of mists can cause irritation to the nose, mouth, throat, mucous membranes and lungs. Symptoms of exposure may include sneezing, coughing, chest discomfort or pain and shortness of breath. Inhalation of high mist concentration or prolonged inhalation may cause tissue damage, which could lead to chemical pneumonia.

Eye Contact: Exposure to the mists or liquid can cause severe eye irritation. Symptoms of exposure may include tearing, redness, swelling and pain. Corneal damage with impairment of vision is not expected when exposures are treated promptly.

Skin Contact: Exposure to the liquid or mists may cause moderate skin irritation. Symptoms of exposure may include redness, swelling and discomfort or pain, at the site of contact. There is no published data indicating this product is absorbed through the skin.

Ingestion: Ingestion may cause moderate irritation to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, abdominal pain, diarrhea and gas bloating.

Chronic Hazards: Prolonged or repeated skin exposure to the mists or liquid may cause severe irritation, drying and/or flaking of the skin, and it may lead to dermatitis. Otherwise, the chronic health effects of exposure to this product are expected to be the same as for acute exposure.

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. Get medical attention.

Skin Contact: In case of contact, flush skin with plenty of clean running water. Remove contaminated clothing and shoes and wash before reuse. If irritation occurs and persists, get medical attention.

Ingestion: If large quantities of this product are swallowed, call a physician immediately. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

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Note to Physicians: The toxicities of Potassium Carbonate and Potassium Silicate are relatively low by ingestion, but Carbon Dioxide gas will be generated and may cause gastrointestinal problems. The irritant effects of high concentrations may produce vesicular skin reactions in persons with abraded skin. Treat exposure symptomatically.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: This product does not flash.

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

Autoignition Temperature: not applicable

GENERAL HAZARD: This product is a non-flammable, alkaline, inorganic aqueous solution. The Uniform Fire Code health hazard classification for this product is **IRRITANT**. This product may produce hazardous mists or decomposition products. It may react with Aluminum to form flammable / explosive Hydrogen gas.

Fire Fighting Instructions: **Extinguishing Media:** Water, foam, CO₂, or dry chemicals. Use the extinguishing media that is appropriate to the surrounding fire. Use a water spray or fog to cool containers exposed to the heat of a fire.

Fire Fighting Equipment: Fire fighters should wear full protective equipment, including self-contained breathing apparatus.

Hazardous Combustion Products: When heated to dryness and decomposition, it emits toxic carbon dioxide and potassium oxide.

6. ACCIDENTAL RELEASE MEASURES

Land Spill: Wearing recommended protective equipment and clothing, dike the spill and pick up the bulk of liquid using pumps or a vacuum truck, or absorb the liquid in sand or a commercial absorbent. Place in approved containers for recovery, disposal, or satellite accumulation. Neutralize the alkalinity, of the remaining liquid, using a dilute acid solution appropriate for neutralizing alkaline liquids. Liberally cover the spill area with sodium bicarbonate. Flush the spill area with water; collect the rinsates for disposal or sewer, as appropriate.

Water Spill: Wear recommended protective equipment and clothing if contact with hazardous material can occur. Stop or divert water flow. Dike contaminated water and remove for disposal and/or treatment. As appropriate, notify all downstream users of possible contamination.

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7. HANDLING AND STORAGE

Storage Temperature: Ambient

Storage Pressure: Ambient

General: Store this product in a cool, dry, well-ventilated area away from incompatible materials and products. Protect eyes, skin and clothing from contact with this product. Wear recommended personnel protective equipment when handling this product. Avoid breathing mists. Use with adequate ventilation. Do not swallow this product. Keep the containers tightly closed when not in use. Wash thoroughly after handling this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Measures: Use a local or general, mechanical exhaust ventilation system capable of maintaining emissions, in the work area, below levels that may cause irritation.

Recommended Personal Protective Equipment:

Respirator: Respiratory protection is not normally required. If use causes misting, a NIOSH approved full face piece or half mask air-purifying cartridge respirator equipped with a good mist/particulate filter cartridge or supplied air is recommended.

Eyes: Wear chemical goggles (recommended by ANSI Z87.1-1979), unless a full facepiece respirator is worn.

Gloves: Wear Butyl Rubber, Neoprene, Nitrile, Polyvinyl Chloride (PVC), Viton or Natural Rubber gloves.

Clothing and Equipment: Wear a Butyl Rubber, Neoprene, Nitrile, PVC or Natural Rubber apron or full protective suit. An eye wash station and safety shower should be available in the work area.

Footwear: Wear Butyl Rubber, Neoprene, Nitrile or Natural Rubber boots when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless	Bulk Density (pounds/ft ³):	Not applicable
Physical State:	Liquid	Vapor Pressure:	No data available
Odor:	No characteristic	Vapor density (air=1):	No data available
Odor Threshold:	No data available	Evaporation rate (n-Butyl Acetate=1):	Less than 1
Molecular Formula:	Mixture	VOC Content:	Nil
Molecular Weight:	Not applicable	% Volatile:	Approximately 87%
Boiling Point:	Greater than 100°C (212°F)	Solubility in H2O:	Complete

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Freezing/Melting Point:	Less than 0°C (32°F)	Octanol/Water Partition Coefficient:	No data available
Specific gravity:	Approximately 1.107 @ 20°C	pH (as is):	11.2 to 12.2
Density (pounds/gallon):	Approximately 9.24	pH (1% solution):	10.5 to 11.5

10. STABILITY AND REACTIVITY

General: This product is stable and hazardous polymerization will not occur.

Conditions to avoid: None known.

Incompatible Material: Acids, acidic materials or products, and some soft metals (e.g., Aluminum, etc.).

Hazardous Decomposition Products: When heated to dryness and decomposition, it emits toxic oxides of carbon and potassium.

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

COMPONENTS:	Potassium Carbonate	Potassium Silicate
Eye Contact:	No data available	No data available
Skin Contact:	No data available	No data available
Oral Rat LD₅₀:	1,870 mg/kg	No data available
Dermal Rabbit LD₅₀:	No data available	No data available
Inhalation Rat LC₅₀:	No data available (Inhalation Rat LC = Greater than 500 mg/m ³)	No data available
Human Data:	No data available	No data available
Other Toxicological Data:	Oral Wild Bird LD ₅₀ : 100 mg/kg	No data available
Carcinogenicity:	No data available	No data available
Teratogenicity:	No data available	No data available
Mutagenicity:	Unscheduled DNA Synthesis, Oral Rat TD _{Lo} : 504 gm/kg/4 weeks	No data available
Synergistic Products:	None reported	None reported
Target Organs:	Eyes, Skin, Mucous membranes and Lungs	Eyes, Skin, Mucous membranes and Lungs
Medical Conditions Aggravated By Exposure	Skin or Respiratory disorders	Skin or Respiratory disorders

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12. ECOLOGICAL INFORMATION

Environmental Fate: This product is completely soluble in water and it can significantly affect the pH of the water. Inorganic substances are not included on the definition of biodegradability. No specific environmental fate data is available on this product.

Environmental Considerations: The aquatic toxicity information has not been determined for this product.

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. As a non-hazardous liquid waste, it should be disposed of in accordance with all local, state, and federal regulations. Consult state or local officials for proper disposal method.

14. TRANSPORTATION INFORMATION

DOT 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				
DOT Reportable Quantity (RQ):	Not listed	RQ for Product:	Not applicable			
Marine Pollutant:	No					
2008 North American Emergency Response Guidebook No.:				Not applicable		
TDG Proper Shipping Name:	NOT RESTRICTED					

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	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):##	Not 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:	Potassium Carbonate	Potassium Silicate
OSHA Target Organs:	Eyes, Skin, Mucous membranes and Lungs	Eyes, Skin, Mucous membranes and Lungs
Carcinogenic Potential:		
Regulated by OSHA:	No	No
Listed on NTP Report:	No	No
Listed by IARC:	No	No
IARC group:	Not applicable	Not applicable
ACGIH Appendix A:	Not listed	Not listed
A1 Confirmed Human:	Not applicable	Not applicable
A2 Suspected Human:	Not applicable	Not applicable
U.S. EPA Requirements:		

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Release Reporting		
CERCLA (40 CFR 302)		
Listed Substance:	Not listed	Not listed
Reportable Quantity:	Not applicable	Not applicable
Category:	Not applicable	Not applicable
RCRA Waste No:	Not applicable	Not applicable
Unlisted Substance:		
Reportable Quantity:	Not applicable	Not applicable
Characteristic:	Not applicable	Not applicable
RCRA Waste No:	Not applicable	Not applicable
SARA TITLE III		
Section 302 & 303 (40 CFR 355):		
Listed Substance:	Not listed	Not listed
Reportable Quantity:	Not applicable	Not applicable
Planning Threshold:	Not applicable	Not applicable
Section 311 & 312 (40 CFR 370)		
Hazard Categories (product):		
Fire:	N	
Sudden Release of Pressure:	N	
Reactive:	N	
Acute Health:	Y	
Chronic Health:	N	
Planning Threshold:	10,000 pounds	10,000 pounds
Section 313 (40 CFR 372):		
Listed Toxic chemical:	Not listed	Not listed
Reporting Threshold:	Not applicable	Not applicable
U.S. TSCA Status		
Listed (40 CFR 710):	Yes	Yes
State Regulations		
State of California: Safe Drinking Water and Toxins Enforcement Act, 1986 (Proposition 65):		
Carcinogen:	No	No
Reproductive Toxin:	No	No
Other Regulations		
State Right to Know Laws:	None known	
Canadian Regulations		
Product Information:		
Controlled Product:	Yes	
WHMIS HAZARD Symbols:	Corrosive Material	
WHMIS Class & Division:	E	
Ingredient Information:		
IDL Substance:	Yes	No
DSL or NDSL lists:	DSL	DSL

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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:

Store Mad Farmer™ Get Up™ in a cool, dry, well ventilated area away from incompatible materials and products. **Do not add Mad Farmer™ Get Up™ to acids or acidic cleaners and sanitizers as this will generate heat and can liberate a large amount of toxic Carbon Dioxide gas (an asphyxiant).**

MSDS Revision Information: MSDS-GU1

Updated April 26, 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.