

## 1. Product and Company Identification

**Name of Product:** ManureMax™  
**Company Name:** GrowMate International, LLC  
17150 Butte Creek Drive, Suite 100  
Houston, TX 77090  
Phone: (281) 866-9042 Fax: (281) 866-9714

**Website:** www.growmateintl.com  
**email:** info@growmateintl.com  
**Emergency Contact:** CHEMTREC  
**Synonym:** NR-0001; NR-0002

## 2. Hazards Identification

**Acute Toxicity: Oral, Category 5**  
**Skin Sensitization, Category 1B**  
**Acute Toxicity: Inhalation, Category 5**  
**Serious Eye Damage/Eye Irritation, Category 2B**



**GHS Signal Word:** **Warning**

**GHS Hazard Phrases:** H303 - May be harmful if swallowed.  
H317 - May cause an allergic skin reaction.  
H333 - May be harmful if inhaled.  
May cause eye irritation.

**GHS Precaution Phrases:** P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:** P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P333+313 - If skin irritation or rash occurs, seek medical advice/attention.  
P337+313 - If eye irritation persists, get medical advice/attention.  
P362+364 - Take off contaminated clothing and wash it before reuse.

**GHS Storage and Disposal Phrases:** P404 - Store in a closed container.  
P402 - Store in a dry place.

**OSHA Regulatory Status:** While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

<b>Potential Health Effects (Acute and Chronic):</b>	Prolonged or repeated skin contact may cause dermatitis.
	Methanol has produced fetotoxicity in rats and teratogenicity in mice exposed by inhalation to high concentrations that did not produce significant maternal toxicity.
<b>Inhalation:</b>	Inhalation of high concentrations may cause coughing and shortness of breath. No hazard expected in normal industrial use. Inhalation is the most common route of occupational exposure.
<b>Skin Contact:</b>	May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.
<b>Eye Contact:</b>	May cause redness, burns, irritation, or tearing(watering) of the eyes.
<b>Ingestion:</b>	May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed. No hazard expected in normal industrial use.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
NA	Humic Acids	14 %

### 4. First Aid Measures

<b>Emergency and First Aid Procedures:</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. If vomiting occurs naturally, have victim lean forward. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Wash out mouth with water provided person is conscious. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. If inhaled, remove to fresh air. No specific treatment is necessary since this product is not likely to be hazardous. If inhaled, remove person to fresh air. If breathing is difficult, give oxygen. In case of contact with eyes, flush eyes for at least 15 minutes while holding eyelids open. In case of contact with skin, remove clothing at affected area and flush affected skin with water for at least 15 minutes. In case of ingestion, wash out mouth with water, provided person is conscious. CALL A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING. Show this safety data sheet to the doctor in attendance.
<b>In Case of Inhalation:</b>	If breathing is difficult, give oxygen. Get medical aid. No specific treatment is necessary since this material is not likely to be hazardous by inhalation.
<b>In Case of Skin Contact:</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. No specific treatment is necessary, since this material is not likely to be hazardous.
<b>In Case of Eye Contact:</b>	No specific treatment is necessary, since this material is not likely to be hazardous. In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes.
<b>In Case of Ingestion:</b>	Never give anything by mouth to an unconscious person. Get medical aid. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. No specific treatment is necessary, since this material is expected to be non-hazardous. Potential for aspiration if swallowed. If vomiting occurs naturally, have victim lean forward.
<b>Note to Physician:</b>	Treat symptomatically and supportively. Effects may be delayed. Antidote: Ethanol may inhibit methanol metabolism.

## 5. Fire Fighting Measures

<b>Flash Pt:</b>	No data.
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or appropriate foam. For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Water may be ineffective. Do NOT use straight streams of water.
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Material will not burn. Ethanol may inhibit methanol metabolism. Use water spray to keep fire-exposed containers cool. Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.
<b>Flammable Properties and Hazards:</b>	No data available.
	No data available.

## 6. Accidental Release Measures

<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation. Use water spray to disperse the gas/vapor. Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as sawdust. Use a spark-proof tool. A vapor suppressing foam may be used to reduce vapors. Water spray may reduce vapor but may not prevent ignition in closed spaces.
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## 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse. No special handling procedures are required. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Do not ingest or inhale. Use only with adequate ventilation. Keep away from heat, sparks and flame. Avoid use in confined spaces.
<b>Precautions To Be Taken in Storing:</b>	Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. No special storage requirements. Keep away from heat, sparks and flame. Keep away from sources of ignition.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
NA	( Trade Secret )	No data.	No data.	No data.
NA	( Trade Secret )	No data.	No data.	No data.

**Respiratory Equipment (Specify Type):** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Respirator protection is not normally required. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

**Eye Protection:** Wear chemical splash goggles. Eye protection is not normally required.

**Protective Gloves:** Wear appropriate protective gloves to prevent skin exposure. Protective garments not normally required. Wear butyl rubber gloves, apron, and/or clothing.

**Other Protective Clothing:** Wear appropriate protective clothing to prevent skin exposure. Protective garments not normally required.

**Engineering Controls (Ventilation etc.):** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. There are no special ventilation requirements.

## 9. Physical and Chemical Properties

<b>Physical States:</b>	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid	
<b>Appearance and Odor:</b>	Black Liquid with some odor and medium viscosity.	
<b>Melting Point:</b>	NP	
<b>Boiling Point:</b>	>= 200.00 C	
<b>Flash Pt:</b>	No data.	
<b>Evaporation Rate:</b>	No data.	
<b>Flammability (solid, gas):</b>	No data available.	
<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	No data.	
<b>Vapor Density (vs. Air = 1):</b>	No data.	
<b>Specific Gravity (Water = 1):</b>	1.06	
<b>Solubility in Water:</b>	soluble	
<b>Percent Volatile:</b>	No data.	
<b>Autoignition Pt:</b>	No data.	

## 10. Stability and Reactivity

<b>Stability:</b>	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>
<b>Conditions To Avoid - Instability:</b>	Incompatible materials, High temperatures, ignition sources, confined spaces.
<b>Incompatibility - Materials To Avoid:</b>	None. Oxidizing agents, Reducing agents, acids, Alkali metals, Potassium, Sodium, metals as powders (e.g. hafnium, rane y nickel), Acid anhydrides, Acid chlorides, powdered aluminum, powdered magnesium.
<b>Hazardous Decomposition or Byproducts:</b>	Carbon monoxide, None. Carbon dioxide.
<b>Possibility of Hazardous Reactions:</b>	Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.

## 11. Toxicological Information

<b>Toxicological Information:</b>	Epidemiology: No information found. Teratogenicity: No information available. Reproductive Effects: Mutagenicity: Neurotoxicity: No data available. Teratogenicity: No data available. Teratogenicity: There is no human information available.
<b>Carcinogenicity/Other Information:</b>	CAS# 111-30-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 62-56-6: ACGIH: Not listed. CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 67-56-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
<b>Carcinogenicity:</b>	NTP? No      IARC Monographs? No      OSHA Regulated? No

## 12. Ecological Information

No data available.

## 13. Disposal Considerations

<b>Waste Disposal Method:</b>	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series:
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## 14. Transport Information

### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not Regulated.  
(CHEMTREC 800-424-9300 -- CCN23740 )

**DOT Hazard Class:** Non Regulated

**UN/NA Number:**

### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** Not Regulated.

## 15. Regulatory Information

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
NA	( Trade Secret )	No	No	No
NA	( Trade Secret )	No	No	No

<b>Regulatory Information:</b>	Methanol and Gluteraldehyde not used in quantities large enough to cause product to be harmful or regulated.
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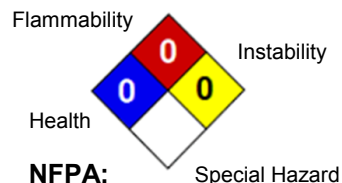
## 16. Other Information

Revision Date: 01/24/2015

Hazard Rating System:

HEALTH	0
FLAMMABILITY	0
PHYSICAL	0
PPE	B

HMIS:



Additional Information About This Product: No data available.

This Product:

Company Policy or

Disclaimer:

The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating from this company or not. Recipients are advised to confirm, in advance of need, that the information is correct, applicable, and suitable to their circumstances. The conditions or methods of handling, storage, use, and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, or use of this information or product. If the product is used as a component in another product, this information may not be applicable.

