

## 1. Product and Company Identification

**Name of product:** GrowMate™ Sal-Gone  
**Company name:** GrowMate International, LLC  
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Houston, TX 77090  
Phone: (281) 866-9042 Fax: (281) 866-9714

**Web site:** www.growmateintl.com  
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## 2. Hazards Identification

**Skin Corrosion/Irritation, Category 3**  
**Acute Toxicity: Oral, Category 5**  
**Acute Toxicity: Skin, Category 4**  
**Skin Sensitization, Category 1**  
**Acute Toxicity: Inhalation, Category 5**  
**Carcinogenicity, Category 2**  
**Flammable Liquids, Category 4**  
**Specific Target Organ Toxicity (single exposure), Category 2**



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

**GHS Hazard Phrases:** May Cause Skin Irritation.  
H303 - May be harmful if swallowed.  
H317 - May cause an allergic skin reaction.  
H313 - May be harmful in contact with skin.  
H333 - May be harmful if inhaled.  
H371 - May cause damage to organs .

**GHS Precaution Phrases:** P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P362+364 - Take off contaminated clothing and wash it before reuse.  
P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P281 - Use personal protective equipment as required.  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.

**GHS Response Phrases:** P312 - Call a POISON CENTER/doctor/... if you feel unwell.  
P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P333+313 - If skin irritation or rash occurs, seek medical advice/attention.  
P308+313 - IF exposed or concerned: Get medical attention/advice.

**GHS Storage and Disposal Phrases:** P405 - Store locked up.  
P403+235 - Store in cool/well-ventilated 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.

**Potential Health Effects (Acute and Chronic):** Though a single exposure may cause no effect, daily exposures may result in the accumulation of a harmful amount.

Prolonged or repeated skin contact may cause dermatitis.

**Inhalation:** May cause respiratory irritation.  
May be harmful if inhaled.  
May cause burns to the digestive tract.  
May be harmful if inhaled.

**Skin Contact:** May cause skin irritation.  
May be absorbed through the skin in harmful amounts. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis.

**Eye Contact:** May cause eye irritation.  
May cause painful sensitization to light.

**Ingestion:** May cause irritation of the digestive tract.  
The toxicological properties of this substance have not been fully investigated.  
Harmful if swallowed.  
Causes gastrointestinal tract burns.  
Toxic if swallowed.  
Ingestion can cause immediate burning pain in the mouth, throat, abdomen; severe swelling of the larynx and skeletal paralysis affecting the ability to breathe, circulatory shock and convulsions.  
May cause allergic respiratory and skin reactions.  
May be fatal or cause blindness if swallowed.  
Aspiration hazard.  
May cause gastrointestinal irritation with nausea, vomiting and diarrhea.  
May cause systemic toxicity with acidosis.  
May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea.  
Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.  
May cause cardiopulmonary system effects.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
NA	( Trade Secret )	0.0 -90.0 %
NA	( Trade Secret )	0.0 -50.0 %
584-08-7	Potassium carbonate	0.0 -40.0 %
7664-38-2	Phosphoric acid	0.0 -10.0 %
50-00-0	Formaldehyde	0.0 -7.0 %
67-56-1	Methanol	0.0 -3.0 %

## 4. First Aid Measures

<b>Emergency and First Aid Procedures:</b>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. In case of eye contact, immediately flush eyes with plenty of water for 15-20 minutes while holding eyelids open. In case of skin contact, flush skin with plenty of soap and water. In case of ingestion, DO NOT INDUCE VOMITING. Rinse mouth out with water. Get immediate medical attention. Seek medical advise for any of these occurances.
<b>In Case of Inhalation:</b>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical aid immediately.
<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. If irritation develops, get medical aid.
<b>In Case of Eye Contact:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<b>In Case of Ingestion:</b>	Never give anything by mouth to an unconscious person. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Get medical aid immediately. Potential for aspiration if swallowed. If vomiting occurs naturally, have victim lean forward.
<b>Signs and Symptoms Of Exposure:</b>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. May cause convulsions. Gastrointestinal disturbances. Coughing, chest pains, difficulty in breathing. Exposure can cause:
<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 chemical foam. Suitable: 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. Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions. 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: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment. PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. Evacuate area. PROCEDURE(S) OF PERSONAL PRECAUTION(S) Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Methods for cleaning up. Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. 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>	<p>Wash thoroughly after handling.</p> <p>Minimize dust generation and accumulation.</p> <p>Avoid contact with eyes, skin, and clothing.</p> <p>Keep container tightly closed.</p> <p>Avoid ingestion and inhalation.</p> <p>Do not breathe dust, vapor, mist, or gas.</p> <p>Do not get in eyes, on skin, or on clothing.</p> <p>Do not ingest or inhale.</p> <p>Do not get in eyes, on skin, on clothing.</p> <p>Remove contaminated clothing and wash before reuse.</p> <p>Use spark-proof tools and explosion proof equipment.</p> <p>Empty containers retain product residue, (liquid and/or vapor), and can be dangerous.</p> <p>Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.</p> <p>Use only with adequate ventilation.</p> <p>Keep away from heat, sparks and flame.</p> <p>Avoid use in confined spaces.</p>
<b>Precautions To Be Taken in Storing:</b>	<p>Store in a tightly closed container.</p> <p>Store in a cool, dry, well-ventilated area away from incompatible substances.</p> <p>Store in a cool, dry place.</p> <p>Suitable: Keep away from heat, sparks and flame.</p> <p>Keep away from sources of ignition.</p>

## 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.
584-08-7	Potassium carbonate	No data.	No data.	No data.
7664-38-2	Phosphoric acid	PEL: 1 mg/m3	TLV: 1 mg/m3 STEL: 3 mg/m3	No data.
50-00-0	Formaldehyde	PEL: 0.75 ppm STEL: 2 ppm (15 min)	CEIL: 0.3 ppm	No data.
67-56-1	Methanol	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.

<b>Respiratory Equipment (Specify Type):</b>	<p>Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.</p> <p>Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).</p> <p>Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.</p> <p>If the respirator is the sole means of protection, use a full-face supplied air respirator.</p>
<b>Eye Protection:</b>	<p>Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.</p> <p>Wear chemical splash goggles.</p>

Chemical safety goggles.  
 Other: Faceshield (8-inch minimum).

**Protective Gloves:** Wear appropriate protective gloves to prevent skin exposure. Wear butyl rubber gloves, apron, and/or clothing.

**Other Protective Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Engineering Controls (Ventilation etc.):** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.  
 Use only in a chemical fume hood.  
 Safety shower and eye bath.  
 Use explosion-proof ventilation equipment.  
 Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Work/Hygienic/Maintenance Practices:** Wash contaminated clothing before reuse.  
 Discard contaminated shoes.  
 Wash thoroughly after handling.

EXPOSURE LIMITS, RTECS.  
 Country Source Type Value.  
 USA ACGIH Ceiling co0.3 PPM  
 USA MSHA Standard Ceiling co0.02 2 MG/M3 USA OSHA. PEL SEE 1910.1048  
 New Zealand OEL.  
 Remarks: CHECK ACGIH TLV.  
 USA NIOSH TWA 0.016 PPM

## 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Appearance and Odor:** Brown.  
 mild, sweet odor.

**Melting Point:** No data.

**Boiling Point:** >= 200.00 F

**Flash Pt:** No data.

**Evaporation Rate:** No data.

**Flammability (solid, gas):** No data available.

**Explosive Limits:** LEL: No data. UEL: No data.

**Vapor Pressure (vs. Air or mm Hg):** No data.

**Vapor Density (vs. Air = 1):** No data.

**Specific Gravity (Water = 1):** No data.

**Solubility in Water:** dispersible

**Percent Volatile:** No data.

**Autoignition Pt:** No data.

## 10. Stability and Reactivity

<b>Stability:</b>	Unstable [ ]    Stable [ X ]
<b>Conditions To Avoid - Instability:</b>	Incompatible materials, dust generation, Exposure to moist air or water, Metals. Excess heat, ignition sources, confined spaces.
<b>Incompatibility - Materials To Avoid:</b>	acids, magnesium, Strong oxidizing agents, chlorine trifluoride, Reacts with most common metals to produce hydrogen gas. Is corrosive to many materials including leather, rubber, and many organics. Incompatible with: aniline, phenols, isocyanates, anhydrides, Strong acids, Amines, Reducing agents, Alkali metals, Potassium, Sodium, metals as powders (e.g. hafnium, raney nickel), Acid anhydrides, Acid chlorides, powdered aluminum, powdered magnesium.
<b>Hazardous Decomposition or Byproducts:</b>	Carbon monoxide, oxides of nitrogen, Phosphine, oxides of phosphorus, hydrogen gas. Carbon dioxide.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ]    Will not occur [ X ]
<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 information present. No data available. Teratogenicity: No data available. Teratogenicity: There is no human information available. Methanol is considered to be a potential developmental hazard based on animal data. See actual entry in RTECS for complete information. ACGIH cites neuropathy, vision and CNS under TLV basis.
<b>Carcinogenicity/Other Information:</b>	CAS# 584-08-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7664-38-2: 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

<b>General Ecological Information:</b>	Environmental: No information available. Physical: No information available. Other: Do not empty into drains. Dangerous to aquatic life in high concentrations. It may be dangerous if it enters water intakes.
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## 13. Disposal Considerations

**Waste Disposal Method:** 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: None listed. APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. RCRA U-Series:

CAS# 67-56-1: waste number U154 (Ignitable waste).

## 14. Transport Information

### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not regulated as a hazardous material.  
(CHEMTREC 800-424-9300 -- CCN23740 )

**DOT Hazard Class:**

**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
584-08-7	Potassium carbonate	No	No	No
7664-38-2	Phosphoric acid	No	Yes 5000 LB	No
50-00-0	Formaldehyde	Yes 500 LB	Yes 100 LB	Yes
67-56-1	Methanol	No	Yes 5000 LB	Yes



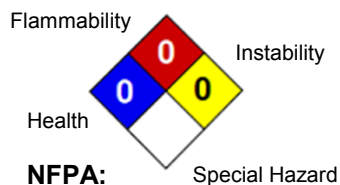
## 16. Other Information

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.

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.

