

## 1. Product and Company Identification

**Product Code:** 333600  
**Product Name:** Synergize  
**Company Name:** Preserve International  
PO Box 17003  
Reno, NV 89511  
**Phone Number:** (209)664-1607  
**Web site address:** www.preserveinternational.com  
**Emergency Contact:** ChemTel, Inc. (800)255-3924  
**Information:** (209)664-1607

## 2. Hazards Identification

**Acute Toxicity: Oral, Category 4**  
**Skin Corrosion/Irritation, Category 1B**  
**Skin Sensitization, Category 1**  
**Acute Toxicity: Inhalation, Category 4**  
**Respiratory Sensitization, Category 1**  
**Aquatic Toxicity (Acute), Category 1**



Warning



Danger



Danger



Warning

**GHS Hazard Phrases:**

Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Harmful if inhaled.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Very toxic to aquatic life.

**GHS Precaution Phrases:**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
In case of inadequate ventilation wear respiratory protection.

**GHS Response Phrases:**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN: Wash with plenty of soap and water.  
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.  
Specific treatment see section 4 on this SDS.  
Rinse mouth.  
If skin irritation or rash occurs, seek medical advice/attention.



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If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.  
Wash contaminated clothing before reuse.  
Collect spillage.

### GHS Storage and Disposal Phrases:

Store locked up.  
Dispose of contents/container as per local regulations.

### Potential Health Effects (Acute and Chronic):

Chronic exposure may cause effects similar to those of acute exposure.

### Inhalation:

Causes respiratory tract irritation. May cause allergic respiratory reaction. May be harmful if inhaled. Inhalation of high concentrations may cause coughing and shortness of breath.  
Causes chemical burns to the respiratory tract.

### Skin Contact:

Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May be harmful if absorbed through the skin.  
Causes skin burns.

### Eye Contact:

Causes eye irritation. Causes eye burns.

### Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed. Causes gastrointestinal tract burns.

## 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
68391-01-5	Quaternary ammonium compounds,benzyl-C12-18 alkyldimethyl, chlorides {(C12-18) Alkyldimethylbenzyl ammonium chloride}	26.0 %	
111-30-8	Glutaraldehyde {Glutaric dialdehyde; Pentanedial}	7.0 %	
7664-38-2	Phosphoric acid {Orthophosphoric acid}	1.0 -5.0 %	

## 4. First Aid Measures

### Emergency and First Aid

#### Procedures:

#### In Case of Inhalation:

Remove from exposure and move to fresh air immediately. Treat symptomatically. Get medical attention. If breathing is difficult, give oxygen.

#### In Case of Skin Contact:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

#### In Case of Eye Contact:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

#### In Case of Ingestion:

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.

#### Note to Physician:

Treat symptomatically and supportively.

### 5. Fire Fighting Measures

**Flash Pt:**

**Explosive Limits:** LEL: UEL:

**Autoignition Pt:**

**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Fire Fighting Instructions:** 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. Substance is noncombustible.

**Flammable Properties and Hazards:**

### 6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:** 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. Vacuum or sweep up material and place into a suitable disposal container. Do not let this chemical enter the environment.

### 7. Handling and Storage

**Precautions To Be Taken in Handling:** Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use only in a chemical fume hood. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

**Precautions To Be Taken in Storing:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store in a cool, dry place.

### 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
68391-01-5	Quaternary ammonium compounds, benzyl-C12-18 alkyldimethyl, chlorides {(C12-18) Alkyldimethylbenzyl ammonium chloride}			
111-30-8	Glutaraldehyde {Glutaric dialdehyde; Pentanedial}		CEIL: 0.05 ppm	
7664-38-2	Phosphoric acid {Orthophosphoric acid}	PEL: 1 mg/m <sup>3</sup>	TLV: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	

**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. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

**Eye Protection:** Face shield.

**Protective Gloves:** Wear appropriate protective gloves to prevent skin exposure.

**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 adequate ventilation to keep airborne concentrations low.

### 9. Physical and Chemical Properties

**Physical States:** ☐ Gas ☒ Liquid ☐ Solid  
**Appearance and Odor:** Pine.  
**Melting Point:**  
**Boiling Point:**  
**Autoignition Pt:**  
**Flash Pt:**  
**Explosive Limits:** LEL: UEL:  
**Specific Gravity (Water = 1):** 1.02 - 1.05  
**Density:** 8.50 - 8.75 LB/GAL  
**Vapor Pressure (vs. Air or mm Hg):**  
**Vapor Density (vs. Air = 1):**  
**Evaporation Rate:**  
**Solubility in Water:** Complete  
**pH:** 4.50 - 5.25  
**Percent Volatile:**

### 10. Stability and Reactivity

**Stability:** Unstable ☐ Stable ☒  
**Conditions To Avoid - Instability:** Incompatible materials, Metals. Excess heat.  
**Incompatibility - Materials To Avoid:** Strong oxidizing agents, Reacts with most common metals to produce hydrogen gas. Is corrosive to many materials including leather, rubber, and many organics.  
**Hazardous Decomposition or Byproducts:** Carbon monoxide, Phosphine, oxides of phosphorus, hydrogen gas.  
**Possibility of Hazardous Reactions:** Will occur ☐ Will not occur ☒  
**Conditions To Avoid - Hazardous Reactions:**

### 11. Toxicological Information

**Toxicological Information:** Epidemiology: No information found.  
Reproductive Effects: Mutagenicity: Neurotoxicity: No data available.  
Teratogenicity: No data available.  
Other Studies:

**Carcinogenicity/Other Information:** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
68391-01-5	Quaternary ammonium compounds, benzyl-C12-18 alkyl dimethyl, chlorides {(C12-18) Alkyl dimethyl benzyl ammonium chloride}	n.a.	n.a.	n.a.	n.a.
111-30-8	Glutaraldehyde {Glutaric dialdehyde; Pentanedial}	n.a.	n.a.	A4	n.a.
7664-38-2	Phosphoric acid {Orthophosphoric acid}	n.a.	n.a.	n.a.	n.a.

### 12. Ecological Information

**General Ecological Information:** Environmental: No information available.  
Physical: No information available.  
Other: Do not empty into drains.

### 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.

### 14. Transport Information

#### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid)  
**DOT Hazard Class:** 8 CORROSIVE  
**UN/NA Number:** UN3264

**Packing Group:** III



#### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** Not Regulated. No information available.

**AIR TRANSPORT (ICAO/IATA):**
**ICAO/IATA Shipping Name:** Phosphoric acid, liquid. mixture.

### 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)
68391-01-5	Quaternary ammonium compounds,benzyl-C12-18 alkyldimethyl, chlorides {(C12-18) Alkyldimethylbenzyl ammonium chloride}	No	No	No
111-30-8	Glutaraldehyde {Glutaric dialdehyde; Pentanedial}	No	No	No
7664-38-2	Phosphoric acid {Orthophosphoric acid}	No	Yes 5000 LB	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
68391-01-5	Quaternary ammonium compounds,benzyl-C12-18 alkyldimethyl, chlorides {(C12-18) Alkyldimethylbenzyl ammonium chloride}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
111-30-8	Glutaraldehyde {Glutaric dialdehyde; Pentanedial}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A PAIR; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 0960; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes
7664-38-2	Phosphoric acid {Orthophosphoric acid}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 1805; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes

**Regulatory Information:**

Synergize - This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**DANGER**

KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.



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### 16. Other Information

**Revision Date:** 07/29/2015

**Additional Information About**

**This Product:**

**Company Policy or**

**Disclaimer:**

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