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Revision Number 1

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product Identifier****Product Name/Catalog ID** CGP10**Other means of identification****Product Description** 10000 µg/mL Phosphorus**Recommended use of the chemical and restrictions on use****Recommended Use** Laboratory chemicals.**Uses advised against** No information available**Details of the supplier of the safety data sheet****Company**Inorganic Ventures  
300 Technology Drive  
Christiansburg, VA 24073  
web: [www.inorganicventures.com](http://www.inorganicventures.com)**E-mail Address** [info@inorganicventures.com](mailto:info@inorganicventures.com)**Emergency Telephone Number**

Chemtrec 1-800-424-9300 (US)

Canutec - 1-613-996-6666 (Canada)

**2. HAZARDS IDENTIFICATION****GHS****Classification**

Skin corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A

**Label Elements****Warning****Hazard Statements**

Causes skin irritation

Causes serious eye irritation

**Appearance** Clear / Colorless**Physical State** Liquid**Odor** Odorless

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response****Eyes**

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

**Skin**

IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse

**Hazards not otherwise classified (HNOC)**

- Harmful to aquatic life

**Other Information****3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Phosphoric acid	7664-38-2	2.6

**4. FIRST AID MEASURES****First Aid Measures**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin Contact</b>	Wash skin with soap and water.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

**Special Exposure Hazards Arising from the Substance/Mixture**

Thermal decomposition can lead to release of irritating gases and vapors

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Ensure adequate ventilation.

**Environmental Precautions**

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Methods and material for containment and cleaning up**

**Methods for Cleaning up** Dam up. Neutralise with lime; soda. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling****Conditions for safe storage, including any incompatibilities**

**Technical measures/Precautions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric acid 7664-38-2	3 mg/m <sup>3</sup> STEL TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup> (vacated) STEL: 3 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## Section 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

**Physical State**  
**Appearance**  
**Odor**

Liquid  
Clear / Colorless  
Odorless

**Property**  
**pH VALUE**  
**Melting Point/Range**  
**Boiling Point/Range**

**Values**  
No data available  
No data available  
100 °C

Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	No data available
Specific Gravity	No data available
Water Solubility	Miscible
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No information available
Oxidizing Properties	No information available
<u>Other information</u>	
VOC Content	No information available.

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### Conditions to Avoid

None known.

### Incompatible Materials

No information available

### Hazardous Decomposition Products

No information available.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

Product does not present an acute toxicity hazard based on known information

#### **Inhalation**

There is no data available for this product.

#### **Eye Contact**

There is no data available for this product.

#### **Skin Contact**

There is no data available for this product.

#### **Ingestion**

There is no data available for this product.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric acid 7664-38-2 ( 2.6 )	= 1530 mg/kg ( Rat )	= 2730 mg/kg ( Rabbit )	> 850 mg/m <sup>3</sup> ( Rat ) 1 h

### Information on toxicological effects

#### **Symptoms**

No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenic effects**

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** No information available.

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 58846 mg/kg  
**ATEmix (dermal)** 105000 mg/kg  
**ATEmix (inhalation-dust/mist)** 8.2 mg/L

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### **Ecotoxicity effects**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Phosphoric acid 7664-38-2		3 - 3.5: 96 h Gambusia affinis mg/L LC50		EC50 12 h = 4.6 mg/L (Daphnia magna)

### Persistence and Degradability

No information available.

### Bioaccumulation/Accumulation

No information available.

### Other Adverse Effects

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste from Residues/Unused Products** Dispose of in accordance with federal, state and local regulations  
**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	California Hazardous Waste Status
Phosphoric acid 7664-38-2	Corrosive

## 14. Transport information

### IMDG/IMO

**14.1. UN-No** Not regulated  
**14.2. Proper Shipping Name** Not regulated  
**14.3. Hazard Class** Not regulated  
**14.4. Packing Group** Not regulated  
**Description** Not applicable.  
**14.5. Marine Pollutant** None.

<b>14.6. Special Provisions</b>	None
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available.

**RID**

<b>14.1. UN-No</b>	Not regulated
<b>14.2. Proper Shipping Name</b>	Not regulated
<b>14.3. Hazard Class</b>	Not regulated
<b>14.4. Packing Group</b>	Not regulated
<b>Description</b>	Not applicable.
<b>14.5. Environmental hazard</b>	None
<b>14.6. Special Provisions</b>	None

**ADR**

<b>14.1. UN-No</b>	Not regulated
<b>14.2. Proper Shipping Name</b>	Not regulated
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated
<b>Description</b>	Not applicable.
<b>14.5. Environmental hazard</b>	None
<b>14.6. Special Provisions</b>	None

**ICAO**

<b>14.1. UN-No</b>	Not regulated
<b>14.2. Proper Shipping Name</b>	Not regulated
<b>14.3. Hazard Class</b>	Not regulated
<b>14.4. Packing Group</b>	Not regulated
<b>Description</b>	Not applicable.
<b>14.5. Environmental hazard</b>	None
<b>14.6. Special Provisions</b>	None

**IATA-DGR**

<b>14.1. UN-No</b>	Not regulated
<b>14.2. Proper Shipping Name</b>	Not regulated
<b>14.3. Hazard Class</b>	Not regulated
<b>14.4. Packing Group</b>	Not regulated
<b>Description</b>	Not applicable
<b>14.5. Environmental hazard</b>	None
<b>14.6. Special Provisions</b>	None

**15. REGULATORY INFORMATION****International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric acid 7664-38-2	5000 lb			X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Phosphoric acid 7664-38-2	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric acid 7664-38-2	X	X	X

**U.S. EPA Label Information****16. OTHER INFORMATION**

Revision Date 23-Jul-2015

**Revision Note**

No information available

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS