1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Name: Propylphosphonic acid
Product Code: SC-236493

Recommended use of the chemical and restrictions on use
For research use only. Not intended for diagnostic or therapeutic use.

2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification
Skin corrosion/irritation: Category 1 Sub-category B
Serious eye damage/eye irritation: Category 1

Label elements
Signal word: Danger
Hazard statements: Causes severe skin burns and eye damage
Symbols/Pictograms: 

Precautionary Statements - Prevention
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor/physician
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
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
Store locked up

Precautionary Statements - Storage
Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)  
Hazards not otherwise classified (HNOC)  
Not applicable

Other Information  
Unknown acute toxicity  
100% of the mixture consists of ingredient(s) of unknown toxicity.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>CAS No</th>
<th>Molecular Weight</th>
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<th>CAS No</th>
<th>Weight %</th>
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<th>Dermal LD50</th>
<th>Inhalation LC50</th>
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<td>&gt;98</td>
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4. FIRST AID MEASURES

First Aid Measures

General advice  
Consult a physician if necessary. Remove to fresh air.

Eye contact  
Wash with plenty of water.

Skin Contact  
Wash skin with soap and water.

Inhalation  
Remove to fresh air if breathing is difficult, give oxygen if not breathing, give artificial respiration.

Ingestion  
Never give anything by mouth to an unconscious person. Clean mouth with water.

Most important symptoms and effects, both acute and delayed

Symptoms  
No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians  
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media  
None.

Specific hazards arising from the chemical

Specific hazards arising from the chemical  
No information available.

Hazardous combustion products  
Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact  
No information available.

Sensitivity to Static Discharge  
No information available.
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, especially in confined areas.

Environmental precautions
See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities
Storage Conditions
Protect from moisture. Store at 4 °C.

Incompatible materials
None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure Guidelines
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls
Engineering Controls
Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment
Eye/face protection
Wear safety glasses with side shields (or goggles).

Skin and Body Protection
Wear protective gloves and protective clothing.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES
### Physical State
- **Solid**

### Appearance
- No information available

### Odor
- No information available

### Explosive properties
- No information available

### Oxidizing properties
- No information available

---

### 10. STABILITY AND REACTIVITY

**Chemical stability**
- Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
- None under normal processing.

**Hazardous polymerization**
- No information available.

**Conditions to avoid**
- Exposure to air or moisture over prolonged periods.

**Incompatible materials**
- Strong oxidizing agents.

**Hazardous Decomposition Products**
- Carbon oxides.

---

### 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**
- Inhalation: No data available.
- Eye contact: No data available.
- Skin Contact: No data available.
- Ingestion: No data available.

**Information on toxicological effects**
- Symptoms: No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**
- Chronic Toxicity: No information available.

**Numerical measures of toxicity - Product Information**
- Unknown acute toxicity: 100% of the mixture consists of ingredient(s) of unknown toxicity

---

### 12. ECOLOGICAL INFORMATION

**pH**
- No information available

**Melting point/freezing point**
- 67 °C

**Boiling point**
- No information available

**Flash point**
- No information available

**Density**
- No information available

**Evaporation rate**
- No information available

**Upper flammability limits**
- No information available

**Lower flammability limit**
- No information available

**Vapor pressure**
- No information available

**Vapor density**
- No information available

**Specific gravity**
- No information available

**Water solubility**
- No information available

**Solubility in other solvents**
- No information available

**Partition coefficient**
- No information available

**Autoignition temperature**
- No information available

**Decomposition temperature**
- No information available

**Kinematic viscosity**
- No information available

**Explosive properties**
- No information available

**Oxidizing properties**
- No information available
Ecotoxicity

May cause long lasting harmful effects to aquatic life

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

US EPA Waste Number

D002

14. TRANSPORT INFORMATION

DOT

UN/ID no UN3260
Hazard Class 8
Packing Group III
Proper shipping name Corrosive solid, acidic, inorganic, n.o.s.
Description UN3260, Corrosive solid, acidic, inorganic, n.o.s., 8, III
Emergency Response Guide Number 154

IMDG

UN/ID no UN3260
Hazard Class 8
Packing Group III
Proper shipping name Corrosive solid, acidic, inorganic, n.o.s.
Description UN3260, Corrosive solid, acidic, inorganic, n.o.s., 8, III
Special Provisions 223, 274
EmS-No F-A, S-B

IATA

UN/ID no UN3260
Hazard Class 8
Packing Group III
Proper shipping name Corrosive solid, acidic, inorganic, n.o.s.
Description UN3260, Corrosive solid, acidic, inorganic, n.o.s., 8, III

15. REGULATORY INFORMATION

International Inventories

All of the components in the product are on the following Inventory lists
Europe (EINECS/ELINCS/NLP) South Korea (KECL): China (IECSC) ENCS (Japan):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
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<td>X</td>
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<td>X</td>
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</table>

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
US 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

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations

16. OTHER INFORMATION

Revision note
No information available

Disclaimer
The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet