



LUXEMBOURG

# SAFETY DATA SHEET

Revision date: 22/04/2020

## 1. Identification of the substance or mixture and of the supplier

**Product:** Potassium phosphite  
**Chemical name:** Potassium salts of phosphorous (phosphonic) acid  
**Synonyms:** Potassium phosphonates  
**Commercial product name:** ProPhyt®  
**EPA registration number:** 42519-22  
**Recommended use:** Fungicide  
**Supplier:** Luxembourg-Pamol, Inc.  
3647 Willowbend Boulevard, Suite 810  
Houston, TX 77054, USA  
Tel: 877-343-4239  
  
**Manufacture:** Luxembourg Industries Ltd.  
27 Hamered St., Tel Aviv, 6812509  
ISRAEL  
  
**Emergency phone number:** +972 3 796 4300  
For USA Only: 1-800-424-9300

ProPhyt® is a registered trademark of Luxembourg

## 2. Hazards identification

**Classification of the product** (two classifications are presented: a. according to Global Harmonized System of Classification and Labelling of Chemicals (GHS, *fifth revised edition, 2013*) and b. according to OSHA HCS 2012, 29 C.F.R. § 1910.1200

### a. ACCORDING TO GHS

**Hazard classification:** Acute toxicity, Dermal                      Category 5  
**Label elements:**                      Pictogram:      No symbol                      Signal word:      Warning  
**Hazard statement(s):**      H313                      May be harmful in contact with skin.

### Precautionary statement(s):

Prevention:                      No prevention statements.  
Response:                      P312                      Call a POISON CENTER/doctor/physician if you feel unwell.  
Storage:                      No storage statements.  
Disposal:                      No disposal statements.

Potassium phosphite SDS  
Page 1 of 7

**LUXEMBOURG-PAMOL, INC.**

## b. ACCORDING TO OSHA HCS 2012, 29 C.F.R. § 1910.1200

<b>Hazard(s) identification:</b>	Non-hazardous.
<b>Hazard statement:</b>	No Hazard statements.
<b>Signal word:</b>	No Signal word.
<b>Pictogram:</b>	No Pictogram.
<b>Precautionary statements:</b>	
Prevention:	No prevention statements.
Response:	No response statements.
Storage:	No storage statements.
Disposal:	No disposal statements.
<b>Hazards Not Otherwise Classified (HNOC):</b>	Not known.

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### 3. Information on ingredients contributing to hazard

<b>Chemical name:</b>	Mono- and Di-Potassium salts of phosphorous (phosphonic) acid
<b>Common name:</b>	Potassium phosphite
<b>Chemical formula:</b>	$\text{KH}_2\text{PO}_3$ + $\text{K}_2\text{HPO}_3$
<b>Structural formula:</b>	$\begin{array}{c} \text{O} \\ \parallel \\ \text{OH}-\text{P}-\text{OK} \\   \\ \text{H} \end{array} + \begin{array}{c} \text{O} \\ \parallel \\ \text{KO}-\text{P}-\text{OK} \\   \\ \text{H} \end{array}$
<b>CAS No.:</b>	13977-65-6 + 13492-26-7
<b>Content:</b>	Potassium phosphite: 52.9-56.1% Phosphorous acid equivalent : 33.3- 35.3%

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### 4. First-aid measures

- Ingestion:** Call a poison control center or doctor immediately for treatment advice.  
Have person sip a glass of water if able to swallow.  
Do not induce vomiting unless told to do so by a poison control center or doctor.  
Do not give anything to an unconscious person.
- Inhalation:** Although exposure by inhalation is less likely to be a health concern, remove victim from exposure by moving to an area of fresh air.  
If breathing is difficult or absent, send for immediate medical attention.

- Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes.  
Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.  
Call a poison control center or doctor for treatment advice.
- Skin:** Take off contaminated clothing.  
Rinse skin immediately with plenty of water for 15-20 minutes.  
Call a poison control center or doctor for treatment advice.

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

No significant health effects known, or anticipated, by any route of exposure when exposed to the product as shipped.

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

No specific antidote.

In the event of an adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient.

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**5. Fire-fighting measures**

- Suitable extinguishing media:** Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the material.
- Specific hazards arising from the substance or mixture:** Hazardous combustion products: Phosphorous oxides.
- Special protective equipment and precautions for firefighters:** Clear fire area of all non-emergency personnel. Stay upwind of fire. Wear chemical protective clothing and self-contained breathing apparatus (SCBA) with positive pressure.

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**6. Accidental release measures**

- Personal precautions, protective equipment:** Use personal protective equipment recommended in Section 8. Isolate the hazard area and deny entry from unnecessary and unprotected personnel.
- Environmental precautions:** Keep children and domestic animals off treated areas. Do not apply directly to water. Do not discharge into drains/surface waters/groundwater. Do not contaminate water by cleaning of equipment or disposal waste. Do not contaminate waters used for domestic purposes, or by wildlife, including aquatic life, or for irrigation.

## Methods and materials for

### containment and cleaning up:

Stop leak if possible. Contain spilled product with an inert diking material, such as sand. Cover the spill area with a 1:1 mixture of vermiculite and solid calcium oxide (the amount of the mixture should be at least double the size of the spill). Place reclaimed product in a closed and properly labeled waste drum. Store drum in separate area until proper disposal. Flush residue with water. Wash thoroughly after handling.

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## 7. Handling and storage

### Precautions for safe handling:

Wear suitable protective clothing. Avoid contact with skin and eyes. Keep away from excessive heat, open flames and from strong oxidizing agents. Do not eat, drink or smoke when using this product. Wash hands and exposed skin thoroughly after handling, and before eating, drinking, chewing gum, using tobacco or using the toilet.

### Conditions for safe storage, including any incompatibilities:

Store in a cool place. Keep container tightly closed in a dry and well ventilated place. Damaged or leaking containers which cannot be used immediately should be transferred to suitable sound containers and properly marked. Keep away from food, drink and animal feed. Separate from chlorates, nitrates and other oxidizing materials.

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## 8. Exposure controls / personal protection

### Occupational exposure limits:

OSHA PEL-TWA: Not established  
ACGIH (2015) TLV-TWA: Not established  
Workplace exposure limits (WELs): Not established

### Appropriate engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations low. Ensure that eyewash stations and safety showers are in proximity to the work-station location.

### Personal protective equipment:

Wear long-sleeved shirt and long pants and shoes plus socks. Wear waterproof gloves and safety goggles while handling the product.

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## 9. Physical and chemical properties

### Appearance:

Transparent liquid

### Color:

Blue

### Odor:

Odourless

### Odor threshold:

Not relevant

### pH (1% aqueous solution):

6.0-7.0

### Melting point/Freezing point:

Not applicable (the product is an aqueous solution)

### Boiling point:

> 100°C

<b>Evaporation rate:</b>	Not applicable
<b>Flash point:</b>	> 100°C
<b>Flammability (solid, gas):</b>	Not applicable
<b>Upper/lower flammability or explosive limits:</b>	Not applicable
<b>Vapour pressure (25°C):</b>	Not applicable
<b>Vapour density:</b>	Not available
<b>Relative density:</b>	Not available
<b>Bulk density (20°C):</b>	1.45-1.49 g/mL
<b>Solubility in water (25°C):</b>	Miscible in any proportion with water (the product is an aqueous solution)
<b>Partition coefficient n-octanol/water (23°C):</b>	Not applicable
<b>Ignition temperature:</b>	Not applicable
<b>Decomposition temperature:</b>	Not available
<b>Viscosity (25°C):</b>	5.81 cSt (@20°C), 3.36 cSt (@40°C)
<b>Explosive properties:</b>	The product is not explosive

## 10. Stability and reactivity

<b>Reactivity:</b>	Will react with strong oxidizers and strong reducers.
<b>Chemical stability:</b>	Stable at room temperature and under recommended storage and handling conditions.
<b>Possibility of hazardous reactions:</b>	None known.
<b>Conditions to avoid:</b>	Avoid exposure to incompatible materials. Avoid exposure excessive heat or open flame.
<b>Incompatible materials:</b>	Strong oxidizers like potassium permanganate and strong reducers like zinc powder.
<b>Hazardous decomposition products:</b>	None known.

## 11. Toxicological information

<b>Acute toxicity</b>	
Oral LD <sub>50</sub> (rat):	>5000 mg/kg
Dermal LD <sub>50</sub> (rabbit):	>4000 mg/kg
Inhalation LC <sub>50</sub> (rat):	> 5.05 mg/L
<b>Skin corrosion/irritation</b>	
Skin irritation (rabbit):	Not irritant
<b>Serious eye damage/irritation</b>	
Eye irritation (rabbit):	Not irritant
<b>Respiratory or skin sensitization</b>	
Dermal sensitization (guinea pig):	Not a contact sensitizer
<b>Germ cell mutagenicity:</b>	No mutagenic potential
<b>Carcinogenicity:</b>	NTP: Not listed OSHA: Not listed IARC: Not listed

<b>Reproductive toxicity:</b>	No primary embryotoxic or teratogenic effects
<b>STOT* single exposure:</b>	Not available
<b>STOT repeated exposure:</b>	Not available
<b>Aspiration hazard:</b>	No aspiration hazard

\*Specific Target Organ Toxicity

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## 12. Ecological information

### Ecotoxicity:

#### Birds:

Northern bobwhite LD <sub>50</sub> :	> 2250 mg a.i./kg
Northern bobwhite dietary LC <sub>50</sub> (5d):	> 5620 mg a.i./kg
Mallard ducks dietary LC <sub>50</sub> (5d):	> 5620 mg a.i./kg

#### Fish:

Rainbow trout LC <sub>50</sub> (96 hrs.):	> 118 mg a.i./L
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#### Crustacean:

<i>Daphnia magna</i> EC <sub>50</sub> (48 hrs.):	> 118 mg a.i./L
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#### Honeybees:

LD <sub>50</sub> , oral (48 hrs.):	> 145 µg/bee
LD <sub>50</sub> , contact (48 hrs.):	>207µg/bee

#### Persistence and degradability:

Not readily biodegradable

#### Bioaccumulative potential:

No bioaccumulative potential

#### Mobility in soil:

Medium to low mobility in soil

#### Other adverse effects:

Not available

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## 13. Disposal considerations

**According to FIFRA:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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## 14. Transport information

Not regulated for transportation.

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## 15. Regulatory information

This data sheet complies with the requirements of the Global Harmonized System of Classification and Labelling of chemicals (GHS) and the Occupational Safety and Health Standards HCS 2012, 29 C.F.R. § 1910.1200 (OSHA).

**According to FIFRA:** 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:

**CAUTION**

Harmful if swallowed or if absorbed through skin.  
Causes moderate eye irritation.

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

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## 16. Other information

*The information contained herein is applicable solely to the indicated product, and does not relate to any other use of this product as described. Its use is intended by persons having technical skill and at their own discretion and risk. The information has been developed from sources reliable. This information is furnished without warranty, expressed or implied, including the warranties of merchantability and fitness for a particular purpose is made with respect to the information contained herein.*

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