# Material Safety Data Sheet
# PROPHYT 50 SL

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

**Product** Liquid Potassium Phosphite
**Chemical Name** Potassium dihydrogen phosphite liquid
**Recommended use:** Agriculture Fertilizer
**Supplier:** **Bio Organic Limited**
Sapna Business Park
P. O. BOX: 29024 – 00100Nairobi – Kenya
Contact: +254 (0) 20 240 3391
E-mail: info@eabusinesscompany.com

## 2. Hazards identification

Classification of the substance or mixture
Classification of the product according to the Global Harmonized System of Classification and Labelling of Chemicals (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.
Emergency No: 0800720021 / 0800730030
Storage: No storage statements.
Disposal: No disposal statements.
**Other hazards:** Not known.

## 3. Information on ingredients contributing to hazard

| **Active Ingredients Content** | **(w / v)** |
|---|---|
| Phosphorus (PO) | 36.96% |
| Potassium ($K_2O$) | 31.13% |
| | **68.09%** |

## 1. First-aid measures

*Call a physician immediately in all cases of suspected poisoning.*

**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.
Never give anything by mouth to an unconscious person.

**Inhalation:**
Remove victim from exposure by moving to an area of fresh air.
If breathing is difficult or absent, send for immediate medical attention.
If breathing has stopped, artificial respiration should be started by qualified personnel.
Call a poison control center or doctor for further treatment advice.

**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.
If eye irritation persists, call a poison control center or doctor for treatment advice.

**Skin:**
Take off contaminated clothing and wash before reuse.
Rinse skin immediately with plenty of water for 15-20 minutes.
If irritation or discomfort develops, seek medical attention.

**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.

## 5. Fire-fighting measures

**Suitable extinguishing media:**
Dry chemical, CO2, alcohol-resistant foam or water spray.
Move containers from fire area if you can do it without risk.

**Specific hazards arising from the substance or mixture:**

**Special protective equipment and precautions for firefighters:**
Dike fire-control water for later disposal; do not scatter
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.

## 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

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. waters/groundwater. Do not contaminate water by cleaning of

## 7. Handling and storage

**Precautions for safe handling:**

Wear suitable protective clothing. Avoid contact with skin the material.

**Conditions for safe storage, including any incompatibilities:** and eyes.

Hazardous combustion products: Phosphorous oxides. 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.

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.

## 8. Exposure controls / personal protection

**Occupational exposure limits:**
TLV (ACGIH): 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 workstation 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.

## 9. Physical and chemical properties

| | |
|---|---|
| **Appearance:** | Liquid |
| **Colour:** | Brown yellow |
| **Odour:** | Odourless |
| **pH (0.4% aqueous solution):** | 5.5 - 6.5 |
| **Melting point/Freezing point:** | Not applicable |
| **Boiling point:** | ＞100℃ |
| **Evaporation rate:** | Not applicable |
| **Flash point:** | ＞100℃ |
| **Flammability (solid, gas):** | Not applicable |
| **Vapour pressure (25°C):** | Not applicable |
| **Vapour density:** | Not applicable |
| **Bulk density (20°C):** | |
| **Solubility in water (25°C):** | |
| **Partition coefficient n-octanol/water:** | 1.45+5- |
| **Ignition temperature:** | Miscible in any proportion with water |
| **Decomposition temperature:** | Not applicable |
| **Explosive properties:** | Not applicable |
| | Not applicable |
| | The product is not explosive |

1. **Stability and reactivity**

| | |
|---|---|
| | Stable at room temperature and under recommended storage and handling conditions. |
| **Possibility of hazardous reactions:** | None Known. |
| **Conditions to avoid:** | Avoid exposure to incompatible materials.<br>Avoid exposure excessive heat or open flame. |
| **Incompatible materials:** | Strong oxidizers like potassium permanganate and strong reducers like zinc powder. |
| **Hazardous decomposition products:** | None Known. |

## 11. Toxicological information Skin corrosion/irritation

| | |
|---|---|
| Skin irritation (rabbit): | Not irritant |
| **Serious eye damage/irritation** | |
| Eye irritation (rabbit): | Not irritant |
| **Respiratory or skin sensitization** | |
| Dermal sensitization (guinea pig): | Not a contact sensitizer |
| **Germ cell mutagenicity:** | No mutagenic potential |
| **Carcinogenicity:** | No carcinogenic potential |
| **Reproductive toxicity:** | No primary embryotoxic or teratogenic effects |
| **STOT* single exposure:** | Not available |
| **STOT repeated exposure:** | Not available |
| **Aspiration hazard:** | No aspiration hazard |

1. **Ecological information**

| | |
|---|---|
| **Ecotoxicity:** | Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water.<br>Do not apply when weather conditions favor drift from target area. |
| **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 |

## 13. Disposal considerations

Dispose of in accordance with applicable national, federal, state and local laws and regulations.

**14. Transport information**

Not regulated for transportation.

**15. Regulatory information**

This data sheet complies with the requirements of the Global Harmonized System of Classification and Labelling of chemicals (GHS).

**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.*

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