

**MATERIAL SAFETY DATA SHEET  
VIVANTIS TECHNOLOGIES SDN BHD**

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**SECTION 1: CHEMICAL IDENTIFICATION**

Catalogue Number: PC0912-500g  
Product Name: Potassium phosphate, Monobasic, Anhydrous

Intended Use:  
For research use only. Not for use in diagnostic procedures.

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**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name           | CAS No.   | EC No. | %      |
|-------------------------|-----------|--------|--------|
| Monopotassium phosphate | 7778-77-0 | -      | 95-100 |

**SECTION 3: HAZARDS IDENTIFICATION**

**GHS Classification**

Skin irritant – Category 2

Eye irritant – Category 2

**Label elements, including precautionary statements**



Signal word: Warning

**Hazard Statements**

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+ P352 If on skin, wash with plenty of soap and water.

P304 + P340 If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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## **SECTION 4: FIRST-AID MEASURES**

In case of eye contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Consult a physician.

In case of skin contact, immediately wash skin with soap and copious amounts of water removing all contaminated clothes and shoes.

In case of inhalation, move to fresh air. If breathing becomes difficult, give oxygen.

In case of ingestion, wash mouth with water and drink plenty of water.

## **SECTION 5: FIRE FIGHTING MEASURES**

Not flammable.

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

Use dry chemical, carbon dioxides, water spray or regular foam.

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

Hazardous decomposition products formed under fire conditions: Potassium oxides, phosphorus oxides.

|  |                 |
|--|-----------------|
| Flash point:                                       | Not determined. |
| Explosion data – sensitivity to mechanical impact: | Not sensitive.  |
| Explosion data – sensitivity to static discharge:  | Not sensitive.  |

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

For personal protection, use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

For environmental precautions, prevent further leakage or spillage if safe to do so.

For cleaning up, pick up and transfer to properly labeled containers. Avoid dust formation. Ventilate area and wash spill site after material pickup is complete.

## **SECTION 7: HANDLING AND STORAGE**

Handle in accordance with good industrial hygiene and safety practice.

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.

Incompatible with strong oxidizing agents.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|                          |   |
|--------------------------|---|
| Eye/Face Protection      | Wear tightly fitting safety glasses.  |
| Skin and Body Protection | Wear protective gloves/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. |

Use engineering measures such as showers, eyewash stations and ventilation systems.  
Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|  |                          |
|--|--------------------------|
| Appearance:                              | White                    |
| Physical state:                          | Solid                    |
| Odor:                                    | No information available |
| Odor threshold:                          | No information available |
| Density:                                 | 2.34                     |
| pH:                                      | No information available |
| Melting point:                           | 253°C                    |
| Freezing point:                          | No information available |
| Initial Boiling point:                   | No information available |
| Boiling point:                           | 400°C                    |
| Flash point:                             | Not applicable           |
| Autoignition temperature:                | No data available        |
| Decomposition temperature:               | No information available |
| Upper Flammability limit in air:         | No data available        |
| Lower Flammability limit in air:         | No data available        |
| Explosive properties:                    | No information available |
| Oxidizing properties:                    | No information available |
| Solubility:                              | No information available |
| Partition coefficient (n-octanol/water): | No data available        |
| Vapor pressure:                          | No data available        |
| Vapor density:                           | No data available        |
| Evaporation rate:                        | No data available        |
| Specific gravity:                        | No data available        |
| Viscosity:                               | No information available |

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## **SECTION 10: STABILITY AND REACTIVITY**

Stable under recommended storage conditions.

|                                   |  |
|-----------------------------------|--|
| Materials to avoid:               | Strong oxidizing agents.                 |
| Hazardous decomposition products: | Potassium oxides. Phosphorous oxides     |
| Hazardous polymerization:         | Hazardous polymerization does not occur. |
| Conditions to avoid:              | Protect from moisture.                   |

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

Irritating to eye, skin and respiratory system.

### **Chronic toxicity**

No known effect based on information supplied

Target Organ Effects: None known

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose waste material in accordance with federal, state and local environmental regulations.

For contaminated packaging, dispose as waste material.

## **SECTION 14: TRANSPORT INFORMATION**

### **IATA**

Not regulated.

### **DOT**

Not regulated.

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**SECTION 15: REGULATORY INFORMATION**

**International Inventories:**

|                      |                 |
|----------------------|-----------------|
| <b>TSCA</b>          | Does not comply |
| <b>EINECS/ELINCS</b> | Does not comply |
| <b>ENCS</b>          | Does not comply |
| <b>IECSC</b>         | Does not comply |
| <b>KECL</b>          | Does not comply |
| <b>PICCS</b>         | Does not comply |
| <b>AICS</b>          | Does not comply |

**United States 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               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

**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).

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**U.S. State Regulations**

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

**International Regulations**

**Mexico – Grade** No information available

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**WHMIS Hazard Class**

D2B Toxic materials

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D2B Toxic materials



**SECTION 16: OTHER INFORMATION**

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