

# SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**GHS Product identifier:** Potassium Phosphate, Dibasic, Anhydrous

**Other means of identification**

**Product No.:** 0242, 3222, 3250, 3251, 3252, 3254, 3255, 325A, 4012, 7787

**Recommended use:** For Laboratory, Research or Manufacturing Use.

**Limitations on use:** Not determined.

**Details of the supplier of the safety data sheet:**

Avantor Performance Materials, LLC  
 100 Matsonford Rd, Suite 200  
 Radnor, PA 19087

**Telephone:**

Customer Service: 855-282-6867

**Contact Person:** Product Information Compliance

**E-mail:** info@avantormaterials.com

**Emergency telephone:** CHEMTREC: 800-101-2201 (24/7)

## 2 HAZARDS IDENTIFICATION

**GHS classification:**

**GHS label elements:**

Not applicable

**Other hazards which do not result in classification':**

**Primary hazards:** Dust clouds may be explosive under certain conditions.

**Specific hazards:** No data available.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

**Substance or Preparation:**

**General information:**

Chemical name	Concentration	CAS-No.	EC No.
Potassium phosphate, dibasic, anhydrous	100.00%	7758-11-4	

## 4 FIRST AID MEASURES

**General:** Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

**Skin Contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.

<b>Ingestion</b>	Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.
<b>Most important symptoms/effects, acute delayed:</b>	May cause irritation to skin, eyes and respiratory tract.
<b>Indication of immediate medical attention and special treatment needed, if necessary:</b>	Treat symptomatically. Symptoms may be delayed.

## 5 FIRE-FIGHTING MEASURES

<b>Extinguishing media:</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Unsuitable extinguishing media:</b>	None known.
<b>Specific hazard arising from the chemical:</b>	During fire, gases hazardous to health may be formed.
<b>Special fire fighting procedures:</b>	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.
<b>Special protective action for fire fighters:</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures:</b>	Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.
<b>Environmental Precautions:</b>	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
<b>Methods and material for containment and cleaning up:</b>	Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.
<b>Notification Procedures:</b>	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

## 7 HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.
<b>Condition for safe storage, including any incompatibilities:</b>	Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Appropriated engineering control measures:</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
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**Occupational Exposure Limits:**

None known.

**Personal protective equipment (ppe)**

**Respiratory Protection:**

In case of inadequate ventilation use suitable respirator.

**Eye Protection:**

Use tight fitting goggles if dust is generated.

**Hand Protection:**

Wear protective gloves.

**Skin Protection:**

Wear suitable protective clothing.

**Hygiene measures:**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

<b>Physical state:</b>	Solid
<b>Form:</b>	Crystals or powder.
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting Point:</b>	> 465 °C
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%)-:</b>	No data available.
<b>Flammability Limit - Lower (%)-:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Relative density:</b>	2.45 (20 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

**10 STABILITY AND REACTIVITY**

**Incompatible Materials:**

Strong oxidizing agents.

**Chemical Stability:**

Material is stable under normal conditions.

**Possibility of hazardous reactions:**

Hazardous polymerization does not occur.

**Conditions to avoid:** Contact with incompatible materials.

**Hazardous Decomposition Products:** oxides of phosphorus

## 11 TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Inhalation:** No adverse effects are expected.

**Ingestion:** No adverse effects due to ingestion are expected.

**Skin Contact:** No adverse effects are expected.

**Eye contact:** May cause temporary eye irritation.

### Information on toxicological effects

#### Acute toxicity

##### Oral

**Product:** LD 50 (Rat): 4,260 - 5,700 mg/kg

##### Dermal

**Product:** LD 50 (Rabbit): > 5,000 mg/kg

##### Inhalation

**Product:** LC 50 (Rat, 4 h): > 0.83 mg/l

##### Repeated dose toxicity

**Product:** None known.

##### Skin Corrosion/Irritation:

**Product:** Not known.

##### Serious Eye Damage/Eye Irritation:

**Product:** May cause temporary eye irritation.

##### Respiratory or Skin Sensitization:

**Product:** Not a skin nor a respiratory sensitizer.

#### Germ Cell Mutagenicity

##### In vitro

**Product:** No mutagenic components identified

##### In vivo

**Product:** No mutagenic components identified

#### Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

#### Reproductive toxicity

**Product:** No components toxic to reproduction

#### Specific Target Organ Toxicity - Single Exposure

**Product:** None known.

#### Specific Target Organ Toxicity - Repeated Exposure

**Product:** None known.

#### Aspiration Hazard

<b>Product:</b>	Not classified
<b>Metabolism:</b>	No data available.
<b>Other effects:</b>	None known.

## 12 ECOLOGICAL INFORMATION

**General information:** Not applicable

### Ecotoxicity

#### Acute toxicity

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

#### Chronic Toxicity

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

#### Toxicity to Aquatic Plants

**Product:** No data available.

#### Persistence and Degradability

##### Biodegradation

**Product:** There are no data on the degradability of this product.

##### BOD/COD Ratio

**Product:** No data available.

#### Bioaccumulative potential

**Product:** No data available on bioaccumulation.

#### Mobility in soil:

The product is water soluble and may spread in water systems.

#### Results of PBT and vPvB assessment:

Not available.

#### Other adverse effects:

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## 13 Disposal considerations

**General information:** No specific disposal method required.

#### Disposal methods:

Discharge, treatment, or disposal may be subject to national, state, or local laws.

## 14 TRANSPORT INFORMATION

#### IMDG - International Maritime Dangerous Goods Code

Not regulated.

**IATA**

Not regulated.

**15 REGULATORY INFORMATION**

**Applicable regulations:**

Workplace Safety and Health Act  
Act on the Control of Transboundary Movements of Hazardous Wastes and their Disposal  
Environmental Public Health Act  
Environmental Public Health (Toxic Industrial Waste) Regulations  
Singapore. Hazardous Substances Control List (Environmental Protection and Management Act, Second Schedule, Part 1, Control of Hazardous Substances)  
Environmental Pollution Control (Hazardous Substances) Regulations

**16 OTHER INFORMATION**

**Inventory Status**

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Mexico INSQ:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory

**Revision Information:** Not relevant.

**Issue Date:** 06-09-2021

**SDS No.:**

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