

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**A. Product name:** Potassium Phosphate, Dibasic,  
Anhydrous

**Other means of identification**

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

**B. Recommended use and Limitations on use:**

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

**Restrictions on use:** Not determined.

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

Company Name: Avantor Performance Materials Korea Limited  
 Address: 201-204, Ace Gwanggyo tower 1, Daehak 4ro 17, Yeongtong-gu, Suwon,  
 Korea 16226

Telephone: 82-31-645-7250

Fax: 82-31-645-7279

**Emergency telephone number:** CHEMTREC: 080-822-1374 (24/7)

## 2. HAZARDS IDENTIFICATION

**A. Hazard category/Classification:**

The product has not been classified as hazardous according to the legislation in force.

**B. Warning label items including precautionary statement:**

Not applicable

**C. Other hazards not included in the hazard category criteria:** No data available.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substances**

Chemical name	Common name and synonyms	CAS number	KECI No.	Content in percent (%)
Potassium phosphate, dibasic, anhydrous		7758-11-4	KE-12167	100.00%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. FIRST AID MEASURES

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

**A. In case of eye contact** Flush thoroughly with water. If irritation occurs, get medical assistance.

- B. In case of skin contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.
- C. In case of inhalation:** Move to fresh air. Get medical attention if symptoms persist.
- D. In case of swallowing:** Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.
- E. Notes to the physician:**
- Hazards:** No data available.
- Symptoms:** May cause irritation to skin, eyes and respiratory tract.
- Treatment:** Treat symptomatically. Symptoms may be delayed.

## 5. FIRE-FIGHTING MEASURES

- General Fire Hazards:** The product is non-combustible.
- A. Suitable (and unsuitable) extinguishing media:**
- Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.
- Unsuitable extinguishing media:** None known.
- B. Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed.
- C. Specific methods of fire-fighting:** 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.
- Special protective equipment for fire-fighters:** 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

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

## 7. HANDLING AND STORAGE

- A. Precautions for safe handling:** Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.

**B. Conditions for safe storage, including any incompatibilities:** Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**A. Exposure limit values, biological values, etc.:**

**Occupational Exposure Limits**

None of the components have assigned exposure limits.

**B. Appropriate engineering controls:** No data available.

**C. 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.

**Body 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

**A. Appearance:**

**Physical state:** Solid

**Form:** Crystals or powder.

**Color:** White

**B. Odor:** Odorless

**C. Odor Threshold:** No data available.

**D. pH:** No data available.

**E. Melting point/freezing point:** > 465 °C

**F. Boiling point, initial boiling point, and boiling range:** No data available.

**G. Flash Point:** Not applicable

**H. Evaporation Rate:** No data available.

**I. Flammability (solid, gas):** No data available.

**J. Upper/lower limit on flammability or explosive limits:**

**Flammability Limit - Upper (%):** No data available.

**Flammability Limit - Lower (%):** No data available.

**Dust Explosion Limit, Upper:** No data available.

**Dust Explosion Limit, Lower:** No data available.

**K. Vapor pressure:** No data available.

**L. Solubility(ies):**

**Solubility in Water:** Soluble

**Solubility (other):** No data available.

**M. Vapor density (air=1):** No data available.

**N. Specific Gravity:** 2.45 (20 °C)

**O. Partition coefficient (n-octanol/water):** No data available.

<b>P. Autoignition Temperature:</b>	No data available.
<b>Q. Decomposition Temperature:</b>	No data available.
<b>R. Viscosity:</b>	No data available.
<b>S. Molecular weight:</b>	174.18 g/mol (K <sub>2</sub> HPO <sub>4</sub> )

## 10. STABILITY AND REACTIVITY

### A. Stability and hazardous reaction potential

**Stability:** Material is stable under normal conditions.

**Possibility of hazardous reactions:** Hazardous polymerization does not occur.

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

**C. Incompatible Materials:** Strong oxidizing agents.

**D. Hazardous Decomposition Products:** oxides of phosphorus

## 11. TOXICOLOGICAL INFORMATION

### A. Information on likely routes of exposure:

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

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

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

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

### B. Information on health hazards:

#### Acute toxicity (list all possible routes of exposure)

**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): > 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.

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

**ACGIH Carcinogens**

No carcinogenic components identified

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No mutagenic components identified

**In vivo**

**Product:** No mutagenic components identified

**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**

**Product:** Not classified

**Other effects:**

None known.

<b>12. ECOLOGICAL INFORMATION</b>
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**A. Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**B. Persistence and Degradability**

**Biodegradation**

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

**BOD/COD Ratio**

**Product:** No data available.

**C. Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

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

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**D. Mobility in soil:** The product is water soluble and may spread in water systems.

**E. 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.

**A. Method of disposal:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**B. Disposal considerations (including disposal of contaminated containers or packaging):** No data available.

**14. TRANSPORT INFORMATION**

**IMDG**

A.: UN Number: Not regulated.  
 B.: UN Proper Shipping Name: Not regulated.  
 C.: Transport Hazard Class(es)  
     Class: Not regulated.  
     Label(s): Not regulated.  
     EmS No.: Not regulated.  
     Tunnel restriction code: Not regulated.  
 D.: Packing Group: Not regulated.  
 E.: Marine Pollutant: Not regulated.  
 F.: Special precautions, which a user needs to be aware of, or needs for transportation and transport methods: Not regulated.

**IATA**

A.: UN Number: Not regulated.  
 B.: UN Proper Shipping Name: Not regulated.  
 C.: Transport Hazard Class(es)  
     Class: Not regulated.  
     Label(s): Not regulated.  
     EmS No.: Not regulated.  
 D.: Packing Group: Not regulated.  
 E.: Marine Pollutant: Not regulated.  
 F.: Special precautions, which a user needs to be aware of, or needs for transportation and transport methods: Not regulated.

## 15. REGULATORY INFORMATION

### A. Restriction under the Industrial Safety and Health Law:

#### Harmful Substances Prohibited from Manufacturing

None present or none present in regulated quantities.

#### Harmful Substances Requiring Permission for Manufacture or Use

None present or none present in regulated quantities.

#### Controlled Hazardous Substances

None present or none present in regulated quantities.

#### Harmful Substances Requiring Special Medical Examination

None present or none present in regulated quantities.

#### Harmful Substances Requiring Workplace Environment Monitoring

None present or none present in regulated quantities.

### B. Restrictions under the Chemicals Control Law:

#### Accidental Release Prevention Substances

None present or none present in regulated quantities.

### C. Restrictions under the Dangerous Substances Safety Management Act:

#### Dangerous Substances Safety Management Act

Not Regulated

### D. Restrictions under the Wastes Control Act:

#### Halogenated Materials in Waste Organic Solvents

Not Regulated

### E. Restrictions under other foreign or domestic laws:

#### Clean Air Conservation Act

##### Air Pollutants

##### Chemical name

Potassium phosphate, dibasic, anhydrous (7758-11-4)	Listed
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##### Specific Air Pollutants

Not Regulated

### Act on the Registration and Evaluation of Chemicals

#### Banned Toxic Chemicals

None present or none present in regulated quantities.

#### Designated Existing Chemicals Subject to Registration (PEC) (MoE No. 2015-92)

Not Regulated

#### Restricted Chemical Substances

None present or none present in regulated quantities.

#### Toxic Chemicals

None present or none present in regulated quantities.

#### Inventory Status

AICS

On or in compliance with the inventory

DSL

On or in compliance with the inventory

IECSC	On or in compliance with the inventory
ENCS (JP)	On or in compliance with the inventory
ISHL (JP)	On or in compliance with the inventory
KECI (KR)	On or in compliance with the inventory
INSQ	On or in compliance with the inventory
NZIOC	On or in compliance with the inventory
PICCS (PH)	On or in compliance with the inventory
TCSI	On or in compliance with the inventory
TSCA	On or in compliance with the inventory
EU INV	On or in compliance with the inventory

## 16. OTHER INFORMATION

- A. Source of information:** Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.
- B. Issue Date:** 05/12/2014
- C. Number of revisions and date of most recent revision:** 5  
06/09/2021
- D. Other:** No data available.
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