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Odorless

ALFAAA11321

## Potassium hydrogen phosphate, dried

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

产品说明:	无水磷酸氢钾
Product Description:	Potassium hydrogen phosphate, dried
Cat No. :	A11321
Synonyms	Dipotassium hydrogen phosphate
CAS No	7758-11-4
Molecular Formula	H K2 O4 P
Supplier	Avocado Research Chemicals Ltd. (Part of Thermo Fisher Scientific) Shore Road, Heysham Lancashire, LA3 2XY, United Kingdom Office Tel: +44 (0) 1524 850506 Office Fax: +44 (0) 1524 850608
Emergency Telephone Number	For information <b>US</b> call: 001-800-227-6701 / <b>Europe</b> call: +32 14 57 52 11 Emergency Number <b>US:</b> 001-201-796-7100 / <b>Europe:</b> +32 14 57 52 99 <b>CHEMTREC</b> Tel. No. <b>US:</b> 001-800-424-9300 / <b>Europe:</b> 001-703-527-3887
E-mail address	begel.sdsdesk@thermofisher.com
Recommended Use	Laboratory chemicals.
Uses advised against	No Information available

Recommended Use Uses advised against	Laboratory chemicals. No Information available	
	SECTION 2. HAZARD IDENTIFICATION	
Physical State	Appearance	Odor

Solid	White
	Emergency Overview Hygroscopic.

<u>Classification of the substance or mixture</u> Based on available data, the classification criteria are not met

#### Label Elements

None required

 Physical and Chemical Hazards

 Hygroscopic.

 Health Hazards

 The product contains no substances which at their given concentration are considered to be hazardous to health.

 Environmental hazards

 Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

### Potassium hydrogen phosphate, dried

#### Other Hazards

Toxic to terrestrial vertebrates. This product does not contain any known or suspected endocrine disruptors.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No	Weight %
Dipotassium phosphate	7758-11-4	>95

#### **SECTION 4. FIRST AID MEASURES**

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

#### **Skin Contact**

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

#### Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

#### Ingestion

Do NOT induce vomiting. Get medical attention.

#### Most important symptoms and effects

No information available.

#### Self-Protection of the First Aider

No special precautions required.

#### Notes to Physician

Treat symptomatically.

## **SECTION 5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

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

#### Extinguishing media which must not be used for safety reasons No information available.

### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### **Protective Equipment and Precautions for Firefighters**

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

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### **Personal Precautions**

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

#### **Environmental Precautions**

Should not be released into the environment. See Section 12 for additional Ecological Information.

### Potassium hydrogen phosphate, dried

#### Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Refer to protective measures listed in Sections 8 and 13.

### **SECTION 7. HANDLING AND STORAGE**

#### Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### Storage

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

#### Specific Use(s)

Use in laboratories

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

#### Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

#### Exposure Controls

#### Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. .

#### Personal protective equipment

**Eye Protection** Wear safety glasses with side shields (or goggles) (European standard - EN 166)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Natural rubber	See manufacturers	-	EN 374	(minimum requirement)
	recommendations			

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced <b>Recommended Filter type:</b> Particle filter

Potassium hydrogen phosphate, dried

Small scale/Laboratory use	Maintain adequate ventilation Recommended half mask:- Particle filtering: EN149:2001
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Physical State	White Solid	
Odor Odor Threshold pH Melting Point/Range Softening Point	Odorless No data available 8.5-9.6 340 °C / 644 °F No data available	5% aq.sol
Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas)	No information available No information available Not applicable No information available	<b>Method -</b> No information available Solid
Explosion Limits Vapor Pressure Vapor Density Specific Gravity / Density	No data available No data available Not applicable No data available	Solid
Bulk Density Water Solubility Solubility in other solvents Partition Coefficient (n-octanol/wat	No data available Very soluble No information available er)	
Autoignition Temperature Decomposition Temperature Viscosity Explosive Properties	No data available > 180°C Not applicable No information available No information available	Solid
Oxidizing Properties Molecular Formula Molecular Weight	H K2 O4 P 174.18	

## **SECTION 10. STABILITY AND REACTIVITY**

Stability	Hygroscopic.
Hazardous Reactions Hazardous Polymerization	None under normal processing. Hazardous polymerization does not occur.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.
Materials to avoid	Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products Oxides of phosphorus.

## SECTION 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

Potassium hydrogen phosphate, dried

(a) acute toxicity;         Component       LD50 Oral         Dipotassium phosphate       8 g/kg (rat)         (b) skin corrosion/irritation;       No data available         (c) serious eye damage/irritation;       No data available         (d) respiratory or skin sensitization; Respiratory Skin       No data available	LD50 Dermal LD50 > 5000 mg/kg ( Rabbit )	LC50 Inhalation						
Dipotassium phosphate       8 g/kg (rat)         (b) skin corrosion/irritation;       No data available         (c) serious eye damage/irritation;       No data available         (d) respiratory or skin sensitization; Respiratory       No data available								
<ul> <li>(c) serious eye damage/irritation; No data available</li> <li>(d) respiratory or skin sensitization; Respiratory No data available</li> </ul>								
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(d) respiratory or skin sensitization; Respiratory No data available								
(d) respiratory or skin sensitization; Respiratory No data available								
Respiratory No data available								
Respiratory No data available								
(e) germ cell mutagenicity; No data available								
(f) carcinogenicity; No data available								
There are no known carcino	ogenic chemicals in this product							
(a) repreductive to visit u No data available								
(g) reproductive toxicity; No data available								
(h) STOT-single exposure; No data available								
(i) STOT-repeated exposure; No data available								
Target OrgansNo information available.	No information available.							
(j) aspiration hazard; Not applicable Solid								
	have wether a fully investigated							
Other Adverse Effects The toxicological properties	have not been fully investigated.							
Symptoms / effects, both acute and No information available								
delayed								
SECTION 12. ECOLOG	ICAL INFORMATION							
Ecotoxicity effects								
Persistence and Degradability No information available Degradability Not relevant for inorganic su	ibstances							
Bioaccumulative Potential No information available								
Mobility in soil No information available								
		a diaruptara						
Endocrine Disruptor Information Persistent Organic Pollutant This product does not conta This product does not conta	ain any known or suspected endocrir ain any known or suspected substan	ne aisruptors ce						
Ozone Depletion Potential This product does not conta	ain any known or suspected substan	ce						

Potassium hydrogen phosphate, dried

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste from Residues/Unused Products	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
Contaminated Packaging	Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.
	SECTION 14. TRANSPORT INFORMATION
Road and Rail Transport	Not Regulated
IMDG/IMO	Not regulated
IATA_	Not regulated
Special Precautions for User	No special precautions required
	SECTION 15. REGULATORY INFORMATION

#### International Inventories

X = listed, China (IECSC), Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), Korea (KECL).

Component	The Inventory of Hazardous Chemicals (2015 Edition)	•	TCSI	IECSC	EINECS	TSCA	DSL	PICCS	ENCS	ISHL	AICS	KECL
Dipotassium phosphate	-	-	Х	Х	231-834-5	Х	Х	Х	Х	Х	Х	KE-12167

#### **National Regulations**

### **SECTION 16. OTHER INFORMATION**

Prepared By Creation Date Revision Date Revision Summary Health, Safety and Environmental Department 10-Sep-2009 26-Apr-2024 New emergency telephone response service provider.

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Legend

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# SAFETY DATA SHEET

### Potassium hydrogen phosphate, dried

CAS - Chemical Abstracts	501 110	0		
			<b>· ·</b> · · ·	~

Substances/EU List of Notified Chemical Substances **PICCS** - Philippines Inventory of Chemicals and Chemical Substances **IECSC** - Chinese Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

WEL - Workplace Exposure Limit

. . . . .

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road OECD - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor

## Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances Substances List

**ENCS** - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC - Predicted No Effect Concentration

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

**POW** - Partition coefficient Octanol:Water **vPvB** - very Persistent, very Bioaccumulative

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of Safety Data Sheet**