

SAFETY DATA SHEET

Creation Date 01-Feb-2010

Revision Date 13-Oct-2023

Revision Number 7

1. Identification

Product Name

Potassium phosphate, monobasic

Cat No. :P285-10; P285-250LB; P285-3; P285-3LC; P285-50; P285-500CAS No
Synonyms7778-77-0
Potassium dihydrogen phosphateRecommended Use
Uses advised againstLaboratory chemicals.
Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

<u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component			AS No	Weight %	
Dihydrogen potassium phosp	hate	77	78-77-0	<=100	
	4.	First-aid m	neasures		
Eye Contact	Rinse immeo medical atter		of water, also under th	ne eyelids, for at least 15 minutes. Get	
Skin Contact		Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.			
Inhalation	Remove to fr	esh air. Get med	ical attention immediat	ely if symptoms occur.	
Ingestion	Clean mouth symptoms or		Irink afterwards plenty	of water. Get medical attention if	
Most important symptoms and effects	None reason	ably foreseeable			
Notes to Physician	Treat sympto	omatically			
	5. Fi	re-fighting	measures		
Suitable Extinguishing Media	Substance is	nonflammable;	use agent most approp	riate to extinguish surrounding fire.	
Unsuitable Extinguishing Media	No information	on available			
Flash Point Method -	No information No inf				
Autoignition Temperature Explosion Limits	No information	on available			
Upper	No data avai				
Lower Sonsitivity to Machanical Impact	No data avai				
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available				
Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors.					
Hazardous Combustion Products Oxides of phosphorus. Phosphorus trihydride (phosphine). 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.					
NFPA_					
Health 0	Flammab 0	ility	Instability 1	Physical hazards N/A	
	6. Accid	lental rele	ase measures		
Personal Precautions		I protective equip	ment as required. Ens	ure adequate ventilation. Avoid dust	
formation. Environmental Precautions Should not be released into the environment.					
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation.					

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	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. Store under an inert atmosphere. Protect from moisture. Incompatible Materials. Strong oxidizing agents. Strong bases. Strong acids.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	4.4-4.7 @ 20°C 5% aq.sol
Melting Point/Range	253 °C / 487.4 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/wa	ter No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 250°C
Viscosity	Not applicable
Molecular Formula	H2 K O4 P
Molecular Weight	136.09

10. Stability and reactivity			
Reactive Hazard	None known, based on information available		
Stability	Hygroscopic.		
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.		
Incompatible Materials	Strong oxidizing agents, Strong bases, Strong acids		
Hazardous Decomposition Products Oxides of phosphorus, Phosphorus trihydride (phosphine)			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information

Component Information					
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Dihydrogen potassium phosphate	LD50 = 3200 mg/kg (Rat)	LD50 > 4640 mg/kg (Rabbit)	LC50 > 0.83 mg/L (Rat) 4 h		
Toxicologically Synergistic Products Delayed and immediate effects	No information available as well as chronic effects from short and long-term exposure				
Irritation	No information available	No information available			
Sensitization	No information available	No information available			
Carcinogenicity	The table below indicates	The table below indicates whether each agency has listed any ingredient as a carcinogen.			

Component	CAS No	IARC	NTP	ACGIH	OSHA	Maxiaa				
Component						Mexico				
Dihydrogen potassium phosphate	7778-77-0	Not listed	Not listed	Not listed	Not listed	Not listed				
Mutagenic Effects		No information available								
		ite internation av								
Reproductive Effect	S	No information ava	ailable.							
Developmental Effect	cts	No information ava	ailable.							
Teratogenicity		No information ava	ailable.							
STOT - single exposure None known										
STOT - repeated exp	osure	ure None known								
Aspiration hazard		No information available								
Symptoms / effects,both acute and		No information available								
delayed										
Endocrine Disruptor Information No information available										
	·									
Other Adverse Effec	ther Adverse Effects The toxicological properties have not been fully investigated.									
	12. Ecological information									
Ecotoxicity										

Do not empty into drains. .

Persistence and Degradability Soluble in water Persistence is unlikely based on information available. Bioaccumulation/ Accumulation No information available. Mobility Will likely be mobile in the environment due to its water solubility. 13. Disposal considerations	t determine out attern a disconded at an inclusion is also dified as a		
Bioaccumulation/ Accumulation No information available.	iderations		
	nment due to its water solubility.		
refsistence and Degradability Soluble in water refsistence is uninkely based on information available.			
Persistence and Degradability Soluble in water Persistence is unlikely based on information available	Soluble in water Persistence is unlikely based on information available.		

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information		
DOT	Not regulated	
DOT _TDG IATA_	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Dihydrogen potassium phosphate	7778-77-0	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Dihydrogen potassium phosphate	7778-77-0	Х	-	231-913-4	Х	Х	Х	Х	Х	KE-28622

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA	Not applicable			
California Proposition 65	This product does not contain any Proposition 65 chemicals.			
U.S. State Right-to-Know Regulations	Not applicable			
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N			
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.			
Other International Regulations				
Mexico - Grade	No information available			
Authorisation/Restrictions according to EU REACH Not applicable				

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · J · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Dihydrogen potassium phosphate	7778-77-0	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Dihydrogen potassium phosphate	7778-77-0	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	Basel Convention (Hazardous Waste)
Dihydrogen potassium phosphate	7778-77-0	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

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Creation Date	01-Feb-2010
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Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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

