

SAFETY DATA SHEET

Revision Date 30-Mar-2024

Revision Number 3

1. Identification

Product Name

Potassium hydrogen phosphate trihydrate

Cat No. :

CAS No Synonyms

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

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

33365

16788-57-1

No information available

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		CAS No	Weight %				
Potassium hydrogen phosphate	e trihydrate	16788-57-1	<=100				
	4.	First-aid measures					
Eye Contact	the 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 fresh air. Get medical attention immediately if symptoms occur.						
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.						
Most important symptoms and effects	None reasonably foreseeable.						
Notes to Physician	Treat symptomatically						

5. Fire-fighting measures

Suitable Extinguishing Media	Not combustible.
Unsuitable Extinguishing Media	No information available
	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Oxides of phosphorus. Potassium oxides.

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	Flammability 0	Instability 1	Physical hazards -						
6. Accidental release measures									
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.								
Environmental Precautions	Should not be released int Information.	o the environment. See Section	12 for additional Ecological						

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	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.	Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Incompatible Materials. Oxidizing agent.
8. E	Exposure 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	None under normal use conditions.
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	No protective equipment is needed under normal use conditions.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
	9. Physical and chemical properties
Physical State	Solid Crystalline No information available

Physical State	Solid Crystalline
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
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	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	K2 HPO4.3H2 O
Molecular Weight	228.23 (174.18anhy)

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic.
Conditions to Avoid	Exposure to moist air or water.
Incompatible Materials	Oxidizing agent
Hazardous Decomposition Products	s Oxides of phosphorus, Potassium oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Informa Toxicologically Syn Products Delayed and immed	tion ergistic	No information ava		d long-term expo	sure_				
Irritation		No information available							
Sensitization		No information available							
Carcinogenicity	Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.								
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico				
Potassium hydrogen	16788-57-1	Not listed	Not listed	Not listed	Not listed	Not listed				
phosphate trihydrate										
Mutagenic Effects		No information available								
Reproductive Effect	s	No information ava	No information available.							
Developmental Effe	cts	No information ava	No information available.							
Teratogenicity		No information ava	ailable.							
STOT - single expos STOT - repeated exp		None known None known								
Aspiration hazard		No information available								
Symptoms / effects delayed	,both acute and	No information available								
Endocrine Disrupto	r Information	No information available								
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.								
		12. Ecol	ogical infor	mation						
Ecotoxicity Do not empty into dra	ains.									

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						
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified 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 _TDG	Not regulated Not regulated Not regulated Not regulated						

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Potassium hydrogen phosphate trihydrate	16788-57-1	-	-	-

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 Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
Potassium hydrogen phosphate	16788-57-1	-	-	-	Х	-		Х	Х	-
trihydrate										I

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

U.S. 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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	
OSHA - Occupational Safety and Health Administration	Not applicable	

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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	0	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Potassium hydrogen phosphate trihydrate	16788-57-1	-	-	-

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)
Potassium hydrogen phosphate trihydrate	16788-57-1	Not applicable	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	(2012/18/EC) -	Convention (PIC)	Basel Convention (Hazardous Waste)
		for Major Accident Notification	for Safety Report Requirements		
Potassium hydrogen phosphate trihydrate	16788-57-1	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information	
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com	
Revision Date Print Date Revision Summary	30-Mar-2024 30-Mar-2024 New emergency telephone response service provider.	

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 SDS