

# SAFETY DATA SHEET

Creation Date 21-Feb-2012

Revision Date 29-Mar-2024

**Revision Number** 4

1. Identification

**Product Name** 

## Potassium phosphate

Cat No. :

CAS No Synonyms

Recommended Use Uses advised against

tri-Potassium phosphate Laboratory chemicals.

st Food, drug, pesticide or biocidal product use.

46644

7778-53-2

### Details of the supplier of the safety data sheet

### <u>Company</u>

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

### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 1 Category 3

### Label Elements

Signal Word Danger

Hazard Statements

Causes serious eye damage May cause respiratory irritation



## Precautionary Statements

### Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

### Storage

Store in a well-ventilated place. Keep container tightly closed

## Store locked up

### Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component		CAS No	Weight %			
Phosphoric acid, tripotassi	um salt	7778-53-2	>95			
	4.	First-aid measures				
General Advice	If symptoms persist, call a physician.					
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. If skin irritation persists, call a physician.					
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention 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	. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation					
Notes to Physician Treat symptomatically						
5. Fire-fighting measures						

Unsuitable Extinguishing Media

No information available

Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t No information available No information available

### **Specific Hazards Arising from the Chemical**

Corrosive material. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. In the event of fire and/or explosion do not breathe fumes.

### **Hazardous Combustion Products**

Thermal decomposition can lead to release of irritating gases and vapors.

### 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 3	<b>Flammability</b> 0	<b>Instability</b> 0	Physical hazards N/A				
	6. Accidental re	lease measures					
Personal Precautions Environmental Precauti	formation.	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Should not be released into the environment.					
Methods for Containme Up	ent and Clean Sweep up and shovel into containers for disposal.	suitable containers for dispos	al. Keep in suitable, closed				
	7. Handling	and storage					
Handling			oid dust formation. Do not get in n. Avoid ingestion and inhalation.				
Storage.		Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.					
	8. Exposure controls	/ personal protect	ion				
Exposure Guidelines		ain any hazardous materials v gion specific regulatory bodies					
Engineering Measures	Use only under a chemical are close to the workstation		ash stations and safety showers				
Personal Protective Equ	uipment						
Eye/face Protection	Tight sealing safety goggle	es. Face protection shield.					
Skin and body prote	ection Wear appropriate protectiv	e gloves and clothing to preve	ent skin exposure.				
Respiratory Protect	EN 149. Use a NIOSH/MS	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:

Particulates filter conforming to EN 143.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	11,5-12 @ 20°C (10 g/l aq.sol)
Melting Point/Range	1340 °C / 2444 °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/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	K3 O4 P
Molecular Weight	212.27

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.		
Incompatible Materials	Strong oxidizing agents		
Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors			
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
Phosphoric acid, tripotassium salt	>2000 mg/kg (Rat)	>4640 mg/kg (Rabbit)	Not listed
Foxicologically Synergistic	No information available		
Products			
Delayed and immediate effects	as well as chronic effects from	n short and long-term exposure	

Irritation

Causes eye burns

#### Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
Phosphoric acid,	7778-53-2	Not listed	Not listed	Not listed	Not listed	Not listed			
tripotassium salt Mutagenic Effects		No information available							
Reproductive Effect	s	No information available.							
Developmental Effe	cts	No information ava	ailable.						
Teratogenicity		No information ava	ailable.						
STOT - single expos STOT - repeated exp		Respiratory syster None known	n						
Aspiration hazard		No information ava	ailable						
Symptoms / effects delayed	both acute and,	<b>d</b> Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation							
Endocrine Disruptor	r Information	No information ava	ailable						
Other Adverse Effect	ets	The toxicological p	properties have no	been fully investig	ated.				
12. Ecological information									
Ecotoxicity Do not empty into dra	ins.								
Persistence and Deg	gradability	Soluble in water P	ersistence is unlike	ely based on inform	nation available.				
Bioaccumulation/ A	ccumulation	No information available.							
Mobility		Will likely be mobile in the environment due to its water solubility.							
		13. Dispo	sal conside	erations					
Waste Disposal Met	hods	Chemical waste generators must determine whether a discarded chemical is cla hazardous waste. Chemical waste generators must also consult local, regional, national hazardous waste regulations to ensure complete and accurate classific				gional, and			

14. Transport information		
DOT TDG IATA	Not regulated	
_ <u>TDG</u>	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
Phosphoric acid, tripotassium salt	7778-53-2	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)

TSCA 12(b) - Notices of Export

Not applicable

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
Phosphoric acid, tripotassium salt	7778-53-2	Х	-	231-907-1	Х	Х	Х	Х	Х	KE-34771

**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
<b>OSHA</b> - 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
<b>U.S. Department of Transportation</b> 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	5	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Phosphoric acid, tripotassium salt	7778-53-2	-	-	-

### 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)
Phosphoric acid, tripotassium salt	7778-53-2	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)
Phosphoric acid, tripotassium salt	7778-53-2	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		
Creation Date	21-Feb-2012		
Revision Date	29-Mar-2024		
Print Date	29-Mar-2024		
Revision Summary	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