

# SAFETY DATA SHEET

Revision Date 30-Mar-2024

**Revision Number** 3

### 1. Identification

### **Product Name**

### Cobalt (II) phosphate octahydrate

Cat No. :

CAS No Synonyms

Recommended Use Uses advised against

No information available Laboratory chemicals. Food, drug, pesticide or biocidal product use.

23111

10294-50-5

### 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)

Category 4 Category 2 Category 2 Category 1 Category 1 Category 1B Category 3

### Label Elements

Signal Word Danger

### **Hazard Statements**

Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause respiratory irritation May cause cancer



#### Precautionary Statements Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

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

### Response

IF exposed or concerned: Get medical attention/advice

### Inhalation

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

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

### Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

### Ingestion

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

### Rinse mouth

Storage

Store locked up

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

### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

3.	Composition	Information	on Ingredients
			- <u> </u>

Component	CAS No	Weight %
Cobalt (II) phosphate octahydrate	10294-50-5	<=100

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	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing	
Notes to Physician	Treat symptomatically	

5. Fire-fighting measures

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

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Health 2	Flammability 0	Instability 0	Physical hazards -
	6. Accidental rel	ease measures	
Personal Precautions	Ensure adequate ventilation formation.	n. Use personal protective equ	ipment as required. Avoid dust
Environmental Precautions		5	n 12 for additional Ecological water system. Do not flush into

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Oxidizing agent.

## 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Cobalt (II) phosphate	TWA: 0.02 mg/m <sup>3</sup>			TWA: 0.02 mg/m <sup>3</sup>
octahydrate				

### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

Engineering Measures	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. 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	Violet
Odor	Odorless
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	2.769 g/cm3
Solubility	No information available
Partition coefficient; n-octanol/water	No data available

Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight

No information available No information available Not applicable Co3 (PO4)2.8H2 O 510.87 (366.74anhy)

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Oxidizing agent	
Hazardous Decomposition Product	<b>s</b> Oxides of phosphorus, Cobalt oxides	
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			
Cobalt (II) phosphate octahydrate	LD50 = 539 mg/kg (Rat)	Not listed	Not listed			
Toxicologically Synergistic Products Delayed and immediate effects a	No information available	nort and long-term exposu	re			
rritation	No information available					
Sensitization	Association May cause sensitization by skin contact					
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen					

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Cobalt (II) phosphate	10294-50-5	Not listed	Reasonably	A3	Not listed	Not listed		
octahydrate		Anticipated						
NTP: (National To	xicity Program)		,	nal Toxicity Program	)			
				own Carcinogen				
					nably Anticipated to	be a Human		
			Carcinogen					
	n Conference of Go	overnmental Industr		Human Carcinogen				
Hygienists)				cted Human Carcino ' Carcinogen	yen			
				0	of Governmental Ind	lustrial Hvaienists)		
Mutagenic Effects		No information ava	· ·			uotinai riygioriiotoj		
<b>Reproductive Effect</b>	S	No information ava	ailable.					
-								
<b>Developmental Effe</b>	cts	No information ava	ailable.					
-								
Teratogenicity		No information ava	ailable.					
STOT - single expos	sure	Respiratory system	n					
STOT - repeated exp	osure	None known						

Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.
	12. Ecological information

### Ecotoxicity

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability	Insoluble in water May persist
Bioaccumulation/ Accumulation	No information available.
Mobility	Is not likely mobile in the environment due its low water solubility.
	13. Disposal considerations

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			
ΙΑΤΑ	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
Cobalt (II) phosphate octahydrate	10294-50-5	-	-	-

#### 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
Cobalt (II) phosphate octahydrate	10294-50-5	-	-	-	-	-		-	-	-

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Cobalt (II) phosphate octahydrate	10294-50-5	<=100	0.1 %	-

### 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

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Cobalt (II) phosphate octahydrate	Х		-

**OSHA** - Occupational Safety and Not applicable Health Administration

### 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

Component	Massachusetts	New Jersey	Pennsylva	nia Illinois	Rhode Island
Cobalt (II) phosphate	-	Х	Х	Х	-
octahydrate					
<b>U.S. Department of Trans</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollut	N N				
DOT Severe Marine Poliula	ant N				
U.S. Department of Homeland This product does not contain any DHS chemicals. Security					
Other International Regu	lations				
Mexico - Grade	No info	mation available			
Authorisation/Restrictior	is according to EU	REACH N	lot applicable		
Component	CAS	lo REACH	(1907/2006) -	REACH (1907/2006) -	REACH Regulation (E

Component	CAS No	REACH (1907/2006) -	REACH (1907/2006) -	<b>REACH Regulation (EC</b>
-		Annex XIV - Substances	Annex XVII - Restrictions	1907/2006) article 59 -
		Subject to Authorization	on Certain Dangerous	Candidate List of
		-	Substances	Substances of Very High
				Concern (SVHC)

Cobalt (II) phosphate octahydrate	10294-50-5	-	-	-

### 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)
Cobalt (II) phosphate octahydrate	10294-50-5	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 for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Cobalt (II) phosphate octahydrate	10294-50-5	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

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# End of SDS