



Chemtrec: (800) 424-9300
Poison Center: (800) 562-8236
Revision Date: January 8th, 2019

SAFETY DATA SHEET

Identity: Lithium phosphate

Formula: Li₃PO₄

SECTION I - GENERAL INFORMATION

Manufacturer: Super Conductor Materials, Inc.

The information below is believed to be accurate and represents the best information available to Super Conductor Materials, Inc. However, SCM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Molecular weight: 115.79

CAS #	OSHA PEL	ACGIH TLV	%
10377-52-3	N/A	N/A	100

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Powder

Boiling Point: N/A
Melting Point: 1205°C
Evaporation Rate: N/A
Solubility in water: 0.39g/l

Vapor Pressure (vs. air or mmHg): N/A
Density: 2.537 g/cm³
Flash Point: N/A

Appearance and odor: White odorless powder

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: Unknown *Explosive Limits:* LEL: N/A UEL: N/A

Extinguishing Media: Use suitable extinguishing agent for surrounding material and type of fire

Special Fire Fighting Procedures:

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

Unusual Fire and Explosion Hazards: N/A



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SECTION V - REACTIVITY DATA

Stability: N/A

Conditions to Avoid (stability): water/moisture

Incompatibility: phosphorous oxides

Hazardous Decomposition or Byproducts: Decomposition will not occur if used and stored according to specification.

Hazardous Polymerization: None known

Conditions to avoid (hazardous polymerization): phosphorous oxides

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other? No

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Signs and Symptoms of Overexposure:

Inhalation: Irritant to the skin and mucous membranes

Ingestion: seek immediate help

Skin: Irritant to skin and mucous membranes

Eye: Irritating effect

Health Hazards (Acute and Chronic):

Inorganic phosphorous compounds may cause irritation and hemorrhages in the stomach as well as liver and kidney damage. Both structures may be attacked, especially the jaw and teeth. Large amounts of lithium may cause vomiting, diarrhea, ataxia, intestinal irritation, kidney injury, central nervous system, depression and a drop in blood pressure. Central nervous system effects may include slurred speech, blurred vision, dizziness, sensory loss, convulsions, and stupor. Chronic intake may cause neuromuscular effects such as tremor, ataxia, weakness, clonus and hyperactive reflexes. Lithium can cause kidney damage, gastrointestinal disturbance, fatigue, dehydration, weight loss, dermatological effects and thyroid damage. Lithium ion has shown teratogenic effects in rats and mice.

Target Organs: Kidney and central nervous system

Carcinogenicity: NTP? N/A IARC Monographs? N/A

OSHA Regulated? N/A

Medical Conditions Aggravated by Exposure: N/A

Emergency and First Aid Procedures:

Inhalation: Remove victim to fresh air, keep warm and quiet, and give oxygen if breathing is difficult; seek medical attention

Ingestion: Give 1-2 glasses of milk or water and induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person

Skin: Remove contaminated clothing, brush material off skin, wash affected area with mild soap and water, and seek medical attention if symptoms persist

Eye: Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes and seek medical attention



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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:

Wear appropriate respiratory and protective equipment specified in section VIII. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.

Waste disposal method:

Dispose of in accordance with state, local, and federal regulations.

Hazard Label Information:

Store in cool, dry area and in tightly sealed container. Wash thoroughly after handling.

SECTION VIII - CONTROL MEASURES

Protective Equipment Summary (Hazard Label Information):

NIOSH approved respirator, impervious gloves, safety glasses, clothes to prevent contact.

Ventilation:

Local Exhaust: To maintain concentration at low exposure levels.
Mechanical (General): Recommended.

Work/Hygienic/Maintenance Practices:

Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Please be advised that N/A can either mean Not Applicable or No Data Has Been Established