

Section 1 – Chemical Product and Company Identification

MSDS Name: Lithium Diphenylphosphide in THF
Formula: C₁₂H₁₀LiP

Company: Optima Chemical Group, LLC
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Section 2 – Composition, Information on Ingredients

<u>CAS #</u>	<u>Chemical Name</u>	<u>%</u>
4541-02-0	Lithium Diphenylphosphide	10 -15
109-99-9	Tetrahydrofuran	85-90

Section 3 – Hazards Identification

Hazards: Highly flammable liquid, Target organ effect, Toxic if swallowed or by inhalation, Irritating to eyes, skin, respiratory system, Carcinogen.

NFPA Rating: Health: 2 Flammability: 3 Reactivity: 0

Section 4 – First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, lifting upper and lower lids. Seek medical attention.

Skin: Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure, to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Section 5 – Fire Fighting Measures

Fire Extinguishing Agents Recommended: Water Fog, CO₂, dry chemical powder, or appropriate foam.

Fire Extinguishing Agents to Avoid: None

Special Fire fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 – Accidental Release Measures

Spills: Contain the spill and then collect with non-combustible absorbent material. Prevent further leaks or spillage if safe to do so. Do not let material enter drains. Place in a container for disposal according to local, State and Federal laws. The material is flammable, thus care must be taken to avoid generation of sparks during cleanup.

Section 7 - Handling and Storage

Handling: Avoid contact with skin and eyes. Keep containers tightly sealed. Protect against electrostatic charges. Avoid inhalation of vapor or mist.

Storage: Store in cool, dry, and well ventilated place. Store in tightly closed container.

Section 8 – Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Eyes: Wear appropriate protective eyeglasses or chemical goggles.

Skin: Wear appropriate protective clothing and gloves to prevent skin exposure.

Respiratory: Wear NIOSH/MSHA approved respirator.

Section 9 – Physical and Chemical Properties

Appearance and Odor: Clear to red liquid

Melting Point: N/A

Boiling Point: 65 – 67° C

Flash Point: - 20° C

Vapor Pressure: N/A

Specific Gravity: N/A

pH: N/A

Water Solubility: N/A

Density: 0.925 g/cm³

Section 10 – Stability and Reactivity

Stability: stable under normal handling conditions.

Incompatibility: Avoid strong acids, oxidizing agents, acids and bases.

Hazardous Polymerization: Not expected to occur.

Hazardous Decomposition Products: Carbon oxides, Oxides of phosphorus, Lithium oxides.

Section 11 – Toxicological Information

No LD50 or LC 50 information available on this mixture.

Acute Toxicity: Irritation of the eyes and skin.

Chronic Toxicity: Not listed as a Carcinogen by ACGIH, IARC, NIOSH, NTP, or OSHA.

Section 12 – Ecological Information

Do not allow material to be released to the environment.

Section 13 – Disposal Considerations

Must be disposed of in accordance with federal, state, and local regulations.

Section 14 – Transport Information

DOT Shipping Name: Flammable Liquids, Corrosive, N.O.S., (Lithium Diphenylphosphide solution, Tetrahydrofuran) 3, (8), UN2924, PG II.

Section 15 – Regulatory Information

TSCA: No, Still in Developmental Stages

SARA Title 111 Reporting Requirements:

Section 311/312 Inventory reporting hazard categories: Acute and Chronic Health, Fire Hazard.

Section 313 Release reporting: Not required

Reportable Quantity: RQ: 1116 lbs

Hazardous Air Pollutant: No.

OSHA: Flammable liquid, target organ effect, harmful by ingestion, irritant.

California Proposition 65: None of the chemicals in this product are listed under Proposition 65.

Section 16 – Additional Information

Creation Date: 6/17/10

This information is believed to be accurate and represents the best information currently available to Optima Chemical Group LLC. However, we make no warranty of merchantability, express or implied, with respect to such information and assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.