

SAFETY DATA SHEET

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ProChem inc.

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **1,2,3,4,5-Pentaphenyl-1'-(di-tert-butylphosphino) ferrocene**

PRODUCT NUMBER: PL114

CAS NUMBER: 312959-24-3

SYNONYMS: CTC-Q-PHOS, 1,2,3,4,5-Pentaphenyl-1'-(di-t-butylphosphino) ferrocene, QPhos

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Skin corrosion / irritation.	Category – 2
Serious eye damage / eye irritation.	Category – 2 / 2A
Specific target organ toxicity, single exposure; Respiratory tract irritation.	Category – 3

Pictogram



Signal Word **Warning**

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $[(C_6H_5)_5C_5]Fe[C_5H_4(P(C_4H_9)_2)]$

Molecular Weight: 710.71

CHEMICAL NAME	CAS#	%
1,2,3,4,5-Pentaphenyl-1'(di-tert-butylphosphino)ferrocene	312959-24-3	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. A victim may need assistance in keeping their eyelids open. Get immediate medical attention.
SKIN EXPOSURE: Wash the affected area with plenty of soap and water. Remove all contaminated clothing. Seek medical attention.
INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention.
INGESTION: Do not induce vomiting. Give water to victim to drink. Seek medical attention.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable
AUTO IGNITION TEMPERATURE: Not available
EXPLOSION LIMITS: Not available
EXTINGUISHING MEDIUM: Dry powder, alcohol-resistant foam, or carbon dioxide.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon oxides, phosphorus oxides, and iron oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid breathing fumes, vapors, mists, or gas.
ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Small spills can be mixed with vermiculite and place in suitable container for disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Use with adequate ventilation. Keep container tightly closed. Do not breathe dust or vapor. Do not let product enter drain.
CONDITIONS FOR SAFE STORAGE: Store in a tightly closed container, under inert gas. Store in cool, dry, and well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS: Contains no substances with occupational exposure limit values.
EYE PROTECTION: Wear chemical safety glasses or goggles.
SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat. Avoid direct contact with product.
VENTILATION: Provide local exhaust, preferably mechanical.
RESPIRATOR: Use an approved respirator.
ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Pink powder
ODOR: None
MOLECULAR WEIGHT: 710.71
BOILING POINT: No data available
MELTING POINT: 211-219° C

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

SPECIFIC GRAVITY: No data available
SOLUBILITY IN WATER: Insoluble.

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: No data available
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Carbon oxides, phosphorus oxides, and iron oxides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: No data available
CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.
MUTAGENIC EFFECTS: No data available
TETRATOGENIC EFFECTS: No data available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Not a dangerous good.

SECTION 15 REGULATORY INFORMATION

TSCA: Not listed in the TSCA inventory
SARA 302/304: Not Listed
SARA 311/312: Acute Health Hazard
SARA (TITLE 313): Not Listed
PENNSYLVANIA RIGHT TO KNOW: 1,2,3,4,5-Pentaphenyl-1'-(di-tert-butylphosphino) ferrocene
NEW JERSEY RIGHT TO KNOW: 1,2,3,4,5-Pentaphenyl-1'-(di-tert-butylphosphino) ferrocene
MASSACHUSETTS RIGHT TO KNOW: Product does not contain any listed chemical.
MAINE RIGHT TO KNOW: Product does not contain any listed chemical.
VERMONT RIGHT TO KNOW: Product does not contain any listed chemical.
WASHINGTON RIGHT TO KNOW: Product does not contain any listed chemical
CALIFORNIA PROP. 65: Not Listed

SECTION 16 OTHER INFORMATION

CAS #: Chemical Abstracts Service Number
OSHA: Occupational Safety and Health Administration
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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DATE REVISED: 07/26
REVISION SUMMARY: Removed Fax number. Updated Section 15. All other details in this document and about this product remained unchanged. Reviewed/Approved 7/26 - Updated by EHS 7/13/26.
EHS/SDS Dept
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