SAFETY DATA SHEET

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ProChem inc.

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Bis(di-tert-butyl)-4-dimethylaminophenyl phosphine**

PRODUCT NUMBER: PL110

CAS NUMBER: 932710-63-9

SYNONYMS: N,N-Dimethyl 4-(di(tert-butyl)phosphino)aniline, APhos, A-taPhos, [4-(Dimethylamino)phenyl]bis(tert-butyl)phosphine, (4-(N,N-Dimethylamino)phenyl)di-tert-butyl phosphine, 4-(di-tert-butylphosphino)-N,N-dimethylaniline, (4-Dimethylaminophenyl)di-tert-butylphosphine

MANUFACTURER:

ProChem, Inc.
826 Roosevelt Road

Rockford, IL 61109

PHONE: 815-398-1788
TOLL FREE: 800-795-8788.

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Skin corrosion / irritation.	Category – 2
Serious eye damage / eye irritation.	Category – 2 / 2A
Germ cell mutagenicity.	Category – 2
Hazardous to the aquatic environment, long-term hazard	Category – 4

Pictogram



Signal Word **Warning**

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H413	May cause long lasting harmful effects to aquatic life.

Precautionary Phrases

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protection clothing/eye protection/face protection.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	If exposed or concerned: Get medical advice/attention.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $C_{16}H_{28}NP$

Molecular Weight: 265.37

CHEMICAL NAME	CAS#	%
Bis(di-tert-butyl)-4-dimethylaminophenyl phosphine	932710-63-9	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. Seek medical attention.
INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.
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, water spray, 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, nitrogen oxides, and phosphorus 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.
CONDITIONS FOR SAFE STORAGE: Inert atmosphere. 2-8° C. Store in a tightly closed container. 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: White-yellow solid
ODOR: None
MOLECULAR WEIGHT: 265.37
BOILING POINT: No data available
MELTING POINT: 57-61° C
SPECIFIC GRAVITY: No data available
SOLUBILITY IN WATER: No data available

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Exposure to air and light.
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Carbon oxides, nitrogen oxides, and phosphorus 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: 4-Dimethylaminophenyl)di-tert-butylphosphine
MASSACHUSETTS RIGHT TO KNOW: Product does not contain any listed chemicals.
MAINE RIGHT TO KNOW: Product does not contain any listed chemicals.
VERMONT RIGHT TO KNOW: Product does not contain any listed chemicals.
WASHINGTON RIGHT TO KNOW: Product does not contain any listed chemicals.
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

SECTION 16 OTHER INFORMATION (Cont.)

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.

DATE PREVIOUSLY PREPARED: 04/25
DATE REVISED: 07/26
REVISION SUMMARY: Removed Fax number. UPDATED Section numbers #2 Updated categories. #15, US Regulations and #16 abbreviations. All other details in the document about the product remained unchanged.
Updated by EHS 7/26 –
Reviewed/Approved on.7/26.

EHS/SDS DEPT.