SAFETY DATA SHEET

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ProChem inc.

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **(S)-BINAP**

PRODUCT NUMBER: PL121

CAS NUMBER: 76189-56-5

SYNONYMS: (S) (2,2'-Bis(diphenylphosphino)-1,1'-binaphthyl), (S)-(+)-BINAP, (S)-(+) -2,2'-Bis(diphenylphosphino)-1,1'-binaphthalene, (S)-(+) -2,2'-Bis(diphenylphosphino)-1,1'-binaphtyl, (S)-(+) –(1,1'-Binaphthalene-2,2'-diyl)bis(diphenylphosphine)

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.

b

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $C_{44}H_{32}P_2$

Molecular Weight: 622.67

CHEMICAL NAME	CAS#	%
(S)-BINAP	76189-56-5	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 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. Get medical attention if necessary.
INGESTION: Do Not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable
AUTO IGNITION TEMPERATURE: Not available
EXPLOSION LIMITS: Not available
EXTINGUISHING MEDIUM: Dry chemical, 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 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. Avoid generation of dust.

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. Handling under nitrogen and protect from moisture.
CONDITIONS FOR SAFE STORAGE: Store in a tightly closed container. Store under nitrogen. Air and moisture sensitive. Store in cool, dry, and well-ventilated area. Packaging Material Amber Glass Bottle/Jar.

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 to off-white solid.
ODOR: None

MOLECULAR WEIGHT: 622.67
BOILING POINT: No data available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

MELTING POINT: 238-240° 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: Air and light
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Carbon 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: Extremely Hazardous Substances Threshold Planning Quantity with a section 302 EHS RQ.
SARA 304: NOT LISTED
SARA 311/312: No SARA Hazards
SARA (TITLE 313): This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313
PENNSYLVANIA RIGHT TO KNOW: (S)-BINAP.
NEW JERSEY RIGHT TO KNOW: (S)-BINAP.
CALIFORNIA PROP. 65: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects

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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EHS/SDS Dept
SDS DEPT.