



catapowerinc.com

Safety Data Sheet

Version 1.1

Revision date: 25 October 2023

Section 1: Identification

1.1 Product identifier

Product name: Allyl[1,3-bis(2,6-diisopropylphenyl)imidazol-2-ylidene]chloropalladium(II), ≥ 97 wt %
Other names: Pd(IPr)(η³-allyl)Cl
Product code: 02-05-0101
CAS number: 478980-03-9

1.2 Relevant uses

Recommended use: Laboratory use for synthesis

1.3 Supplier details

Manufacturer: Catapower, Inc.
2265 E. Foothill Blvd.
Pasadena, CA 91107
info@catapowerinc.com
Phone: (626) 657-0386

1.4 Emergency telephone number

Emergency phone: (800) 424-9300
CHEMTREC is available at the number above 24 hours/day, 7 days/week.

Section 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity – single exposure (Category 3), Respiratory system, H335

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word: Warning

Hazard statements

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

Precautionary statements

P261 Avoid breathing dust.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

	Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice / attention.
P337 + P313	If eye irritation persists: Get medical advice / attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified

None.

Section 3: Composition/information on ingredients

3.1 Substances

Synonyms	Allylchloro[1,3-bis(2,6-diisopropylphenyl)imidazol-2-ylidene]palladium(II)
Formula	C ₃₀ H ₄₁ ClN ₂ Pd
Molecular weight	517.53 g/mol
CAS number:	478980-03-9

Section 4: First aid measures

4.1 Description of necessary first-aid instructions

General guidance:	Move away from the dangerous area. Consult a qualified medical professional and present this safety data sheet.
If inhaled:	Move the affected person to fresh air. Provide artificial respiration if not breathing. Consult a qualified medical professional.
In case of skin contact:	Wash the affected area with soap and water. Consult a qualified medical professional.
In case of eye contact:	Flush the affected eye with water for 15 minutes. Consult a qualified medical professional.
If swallowed:	Do not induce vomiting. Rinse the mouth with water. Consult a qualified medical professional.

4.2 Most important symptoms/effects

The most important known symptoms are described in Section 11.

4.3 Indication of immediate medical attention and special treatment needed

No data available.

Section 5: Firefighting measures

5.1 Suitable extinguishing media

Use water, dry sand, dry chemical, or carbon dioxide to extinguish.

5.2 Specific hazards arising from the chemical

Combustion may release carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen chloride gas.

5.3 Recommendations for firefighters

Wear self-contained breathing apparatus for firefighting if needed.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment as recommended in Section 8. Avoid breathing dust. Ensure adequate ventilation. In the event of an emergency, evacuate to a safe location.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Solid material may be swept. Temporarily store in a suitable container. Dispose of the material in accordance with local regulations as described in Section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment as recommended in Section 8. Avoid breathing dust. Avoid contact with skin, eyes, and clothing. Avoid ingestion. Take precautions to prevent the formation and accumulation of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry location. Storage class (TRGS 510): 11: Combustible Solids.

Section 8: Exposure controls / personal protection

8.1 Control parameters

Components with workplace control parameters

No occupational exposure limit.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection

For full or incidental contact, nitrile gloves with a minimum layer thickness of 0.11 mm are recommended. Dispose of contaminated gloves in accordance with relevant local regulations.

Body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

When a risk assessment indicates respiratory protection is required, use a full-face respirator with multi-purpose combination (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use

respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	White to off-white solid
Odor:	No data available
Odor threshold:	No data available
pH:	No data available
Melting/freezing point:	> 300 °C
Initial boiling point and range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	Flammable solid.
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility:	No data available
Partition coefficient, n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive Properties:	No data available

Section 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under the recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Flames and sparks

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products.

Fire-induced decomposition release carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen chloride gas, and silver oxides. See Section 5 for additional firefighting information.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Section 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulation potential

No data available

12.4 Mobility in soil

No data available

12.6 Other adverse effects

No data available

Section 13: Disposal considerations

13.1 Waste disposal methods

Must not be disposed in household garbage or in sewer. Dispose of excess product in appropriate containers with a licensed disposal company in accordance with all relevant regulations.

13.2 Contaminated packaging

Contaminated packaging should be discarded in the same manner as excess product.

Section 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods
II (medium danger)

Section 15: Regulatory information

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture SARA 302 components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 components

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.

SARA 311/312 Hazards

Acute health hazard.

Massachusetts Right To Know components

Allyl[1,3-bis(2,6-diisopropylphenyl)imidazol-2-ylidene]chloropalladium(II), CAS No. 478980-03-9

New Jersey Right To Know components

Allyl[1,3-bis(2,6-diisopropylphenyl)imidazol-2-ylidene]chloropalladium(II), CAS No. 478980-03-9

Section 16: Other information

16.1 Disclaimer

This information supplied in this document is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Users should make their own investigation to determine the suitability of this information for their own purposes.