



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 10-May-2023 Revision Number 1.06

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	5-(Di	5-(Di-t-butylphosphino)-1',3',5'-triphenyl-1,4'-bi-1H-pyrazole			
Product Code 042-31493,040-31494		4			
Manufacturer	1-2 Dc Chuo-l	LM Wako Pure Chem shomachi 3-Chome ku, Osaka 540-8605, : +81-6-6203-3741	·		
Supplier	Fax: + FUJIFI 1-2 Do Phone	81-6-6203-5964 LM Wako Pure Cherr shomachi 3-Chome, : +81-6-6203-3741 81-6-6203-2029		0-8605, Japan	
Emergency telephone nu Recommended uses Restrictions on use	umber +81-6- For res	6203-3741 / +81-3-32 search use only		than those recommende	ed.
	Sectio	n 2: HAZARDS	IDENTIFICAT	ION	
GHS classification <u>Classification of the sub</u> Serious eye damage/eye		<u>. </u>		Category 2B	
Pictograms Signal word	Warnir	ng			
Hazard statements H320 - Causes eye irri	itation				
Precautionary statement • Wash face, hands ar Precautionary statement • IF IN EYES: Rinse car rinsing • If eye irritation persis Precautionary statement • Not applicable Precautionary statement • Not applicable	nd any exposed ski t s-(Response) autiously with wate ts: Get medical ad t s-(Storage)	r for several minutes.		nses, if present and e	asy to do. Continue
Others Other hazards	Not av	ailable			
Sec	tion 3: COMP	OSITION/INFO	RMATION ON	INGREDIENTS	
Single Substance or Mix	ture Substa	ance			
Formula	C32H3	35N4P			
Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN

5-(Di-t-butylphosphino)-1 ',3',5'-triphenyl-1,4'-bi-1H	95.0	506.62	N/A	N/A	894086-00-1
-pyrazole					
Note on ISHL No.:	* in the	table means announ	ced chemical substa	ances.	

in the table means announced chemical substances.

Impurities and/or Additives:

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Not applicable

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

No information available Special protective actions for

fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions	
Storage conditions	Store away from sunlight in well-ventilated place at room temperature (preferably cool).
	Keep container tightly closed.
Safe packaging material	Glass
Incompatible substances	Strong oxidizing agents
•	

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Personal protective equipment Respiratory protection

Hand protection

Eye protection

Dust mask (JIS T 8151) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes, protective boots

Skin and body protection General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Color	White - pale brown
Appearance	crystals - powder
Odor	no data available
Melting point/freezing point	192 °C
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or	
explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	Ethanol and acetone : soluble . water : practically insoluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	no data available
Vapour density	no data available
Particle characteristics	no data available

Section 10: STABILITY AND REACTIVITY

Stability

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

no data available

no data available no data available

no data available

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available no data available no data available no data available

no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data

no data available

Persistence and degradabilityNo information availableBioaccumulative potentialNo information availableMobility in soilNo information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Hazard to the ozone layer

Disposal should be in accordance with applicable regional, national and local laws and regulations.

No information available

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID UN number

Not regulated

Proper shipping name: UN classfication Subsidiary hazard class Packing group	
Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

EINECS/ELINCS	-
TSCA	-
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	tNot applicable
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Not applicable
Register Law	
(2023.4.1-)	
Export Trade Control Order	Not applicable

International Inventories

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.
	Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc

Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless

specified in the text. GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet