



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 09-May-2023 Revision Number 2.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	1,4-B	is(diphenylphos	phino)butane		
Product Code	020-1	7011,028-1701	2		
Manufacturer	1-2 Dos Chuo-k Phone:	M Wako Pure Cherr shomachi 3-Chome u, Osaka 540-8605, +81-6-6203-3741 1-6-6203-5964	-		
Supplier	1-2 Dos Phone:	M Wako Pure Chem shomachi 3-Chome, +81-6-6203-3741 1-6-6203-2029		-8605, Japan	
Emergency telephone n		6203-3741 / +81-3-32	270-8571		
Recommended uses		earch use only	,		
Restrictions on use	Seek ex	pert judgment when usi	ng for purposes other t	han those recommend	ed.
	Sectio	n 2: HAZARDS	IDENTIFICATI	ON	
GHS classification <u>Classification of the sub</u> Serious eye damage/eye		_		Category 2B	
Pictograms					
Signal word	Warnin	g			
Hazard statements H320 - Causes eye irr	itation				
Precautionary statemen • Wash face, hands an Precautionary statemen	nd any exposed skin ts-(Response)		-		
 IF IN EYES: Rinse c rinsing 	autiously with water	for several minutes.	Remove contact len	ses, if present and e	easy to do. Continue
 If eye irritation persis Precautionary statemen Not applicable 		ice/attention			
• Not applicable	ts-(Disposal)				
Others Other hazards	Not ava	ilable			
Sec	tion 3: COMP	OSITION/INFO	RMATION ON I	NGREDIENTS	
Single Substance or Mix	ture Substa	nce			
Formula	C28H2	8P2			
Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
1,4-Bis(diphenylphosphi	98.0	426.47	(3)-4213	公表	7688-25-7

Note on ISHL No.:	* in the	table means announ	ced chemical substa	ances.	
no)butane					

Impurities and/or Additives:

Not applicable

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.

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.

Dust mask (JIS T 8151)

Long-sleeved work clothes

<u>S</u>	<u>to</u>	ra	g	e	

Safe storage conditions Storage conditions

Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Packed with an inert gas. 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 Skin and body protection

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

protective eyeglasses or chemical safety goggles

chemical protective gloves (JIS T 8116)

Form White - slightly yellow Color Appearance crystalline powder - powder Odor no data available 133 - 136 °C Melting point/freezing point no data available Boiling point, initial boiling point and boiling range Flammability no data available Evaporation rate: no data available Flammability (solid, gas): no data available Upper/lower flammability or explosive limits no data available Upper: no data available Lower: no data available Flash point Auto-ignition temperature: no data available **Decomposition temperature:** no data available рΗ no data available Viscosity (coefficient of viscosity) no data available no data available **Dynamic viscosity** Solubilities dichloromethane : soluble . n-Octanol/water partition coefficient:(log Pow) no data available no data available Vapour pressure Specific Gravity / Relative density no data available Vapour density no data available **Particle characteristics** no data available

Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 May be altered by light.

 Hazardous reactions
 May be altered by light.

 None under normal processing
 Conditions to avoid

 Conditions to avoid
 Extremes of temperature and direct sunlight

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Phosphorus oxide

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

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

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 degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available No information available No information available No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

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

Not regulated

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 Proper shipping name: UN classfication Subsidiary hazard class Packing group

Marine pollutant	Not applicable
IMDG	Not regulated
UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	-
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	Not regulated -
Packing group Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

International Inventories	
EINECS/ELINCS	Listed
TSCA	Listed
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	Not 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

motional law anterioa

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. Chemical Dictionary, Kyouritsu Publishing Co., Ltd.	.Ltd.
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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