



SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 07-Mar-2023 Revision Number 1.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	2-[(2,2	2'-Bipyridin)-5-y	/l]aniline				
Product Code	027-1	9101,023-1910	3				
Manufacturer	1-2 Dos Chuo-ki Phone:	M Wako Pure Cherr homachi 3-Chome u, Osaka 540-8605, +81-6-6203-3741 1-6-6203-5964					
Supplier	1-2 Dos Phone: Fax: +8	M Wako Pure Chen homachi 3-Chome, +81-6-6203-3741 1-6-6203-2029	Chuo-ku, Osaka 540)-8605, Japan			
Emergency telephone nu		203-3741 / +81-3-32	270-8571				
Recommended uses and restrictions on use	d For rese	earch use only					
restrictions on use							
	Section	n 2: HAZARDS	IDENTIFICAT	ION			
GHS classification <u>Classification of the substance or mixture</u> Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)							
Pictograms Signal word	None						
Hazard statements Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)							
Precautionary statements-(Prevention) • Not applicable Precautionary statements-(Response) • Not applicable							
Precautionary statement	ts-(Storage)						
Not applicable	to (Dianaaal)						
Precautionary statement • Not applicable	ls-(Disposal)						
Others Other hazards	Not ava	ilable					
Sec	tion 3: COMPO	OSITION/INFO	RMATION ON	INGREDIENTS			
Single Substance or Mixture Substance							
Formula	C16H13	3N3					
Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN		
2-[(2,2'-Bipyridin)-5-yl]an iline	98.0	247.29	N/A	N/A	1802339-57-6		

Note on ISHL No.: * in the table means announced chemical substances.

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.

<u>Storage</u>

Safe storage conditions Storage conditions

.

Safe packaging material Incompatible substances

Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Packed with an inert gas. Glass 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.

Dust mask

Protection gloves

Long-sleeved work clothes

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

protective eyeglasses or chemical safety goggles

Form

FUIII	
Color	White -
Appearance	crystal
Odor	no data
Melting point/freezing point	no data
Boiling point, initial boiling point and boiling rang	
Flammability	no data
Evaporation rate:	no data
Flammability (solid, gas):	no data
Upper/lower flammability or	
explosive limits	
Upper:	no data
Lower:	no data
Flash point	no data
Auto-ignition temperature:	no data
Decomposition temperature:	no data
рН	no data
Viscosity (coefficient of viscosity)	no data
Dynamic viscosity	no data
Solubilities	aceton
n-Octanol/water partition coefficient:(log Pow)	no data
Vapour pressure	no data
Specific Gravity / Relative density	no data
Vapour density	no data
Particle characteristics	no data

White - reddish yellow crystalline powder - powder 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 acetonitrile : soluble . no data available 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
 Extremes

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

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

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. 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 Not regulated UN number -Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant Not applicable

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

Section 15: REGULATORY INFORMATION

International Inventories	
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	
(~2023.3.31)	
Pollutant Release and Transfer	Not applicable
Register Law	
(2023/4/1~) Export Trade Control Order	Not applicable
Export Trade Control Order	Not applicable

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.Lto Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc	d.
---	----

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 Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet