



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 15-Feb-2023 Revision Number 4.050001

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Prodiamine Standard
167-26961
FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome
Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964
FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029
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Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Acute aquatic toxicity Chronic aquatic toxicity

Category 1 Category 1

Pictograms



Warning

Hazard statements

H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements-(Prevention) • Avoid release to the environment

Precautionary statements-(Response)

- Collect spillage
- Precautionary statements-(Storage)

Not applicable

Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others Other hazards

Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance Single Substance or Mixture

Formula

C13H17F3N4O4

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Prodiamine	98.0	350.29	N/A	4-(12)-907	29091-21-2
Note on ISHL No.:	* in the	table means announ	ced chemical substa	inces.	

in the table means announced chemical substances.

Not applicable 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.

Eve 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.

Indestion

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

Precautions Do not rough handling containers scattering. Not to generate stean then gargle In places other than contaminated protective equipment handling area Safety handling precautions	ng agents. Do not give shock. Use with local exhaust ventilation. s, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and n and dust in vain. Seal the container after use. After handling, wash hands and face, and those specified, should not be smoking or eating and drinking Should not be brought ent and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the	
	clothing. Use personal protective equipment as required.	
Storage Safe storage conditions Storage conditions Safe packaging material Incompatible substances	Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. 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 hand- and eye-wash facility. And display their position clearly.		
Exposure limits	This product, as supplied, does not contain any hazardous materials with occupational	

nal exposure limits established by the region specific regulatory bodies.

Personal protective equipment
Respiratory protection
Hand protection
Eye protection
Skin and body protection
Ganaral hygiana considerations

Dust mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

eneral hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas):	yellow - reddish yellow crystalline powder - powder no data available no data available 240 °C (dec.) no data available no data available no data available
Upper/lower flammability or explosive limits Upper:	no data available
Lower: Flash point Auto-ignition temperature:	no data available no data available no data available
Decomposition temperature: pH Viscosity (coefficient of viscosity) Dynamic viscosity	no data available no data available no data available no data available
Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure	acetone : freely soluble . water : practically insoluble,or insoluble . 4.10 no data available

Specific Gravity / Relative density Vapour density Particle characteristics no data available 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
 None under normal processing

 Conditions to avoid
 Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark, Shock

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute	toxicity	

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Prodiamine	>5000mg/kg(Rat)	>2000mg/kg(Rat)	N/A

Skin irritation/corrosion	no data available
Serious eye damage/ irritation	no data available
Respiratory or skin sensitization	no data available
Reproductive cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Prodiamine	N/A	LC50=0.829mg/L 96h	N/A
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 UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN3077 Environmentally hazardous substance, solid, n.o.s. (Prodiamine) 9 III Yes
IMDG	
UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Prodiamine)
UN classfication	9
Subsidiary hazard class	
Packing group	III
Marine pollutant (Sea)	Yes
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
IATA UN number	UN3077
•••••••••••••••••••••••••••••••••••••••	Environmentally hazardous substance, solid, n.o.s. (Prodiamine)
Proper shipping name: UN classfication	9
Subsidiary hazard class	9
Packing group	Ш
Environmentally Hazardous	Yes
Substance	

Section 15: REGULATORY INFORMATION

International Inventories			
EINECS/ELINCS	Listed		
TSCA	Listed		
Japanese regulations			
Fire Service Act	Category V, nitro com pounds, dangerous grade 2		
Poisonous and Deleterious	Not applicable		
Substances Control Law			
Industrial Safety and Health Ac	tNot applicable		
Regulations for the carriage	Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding		
and storage of dangerous	Transport by Ship and Storage, Attached Table 1)		
goods in ship			
Civil Aeronautics Law	Misellaneous Dangerous Substances and Articles (Ordinance Art. 194, MITL Nortification		
	for Air Transportation of Explosives etc., Attached Table 1)		
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		
	NITE: Netional Institute of Technology and Evaluation ((ADAN))		
Key literature references and	NITE: National Institute of Technology and Evaluation (JAPAN)		
sources for data etc.	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 Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet