



# **SAFETY DATA SHEET**

Issue Date 12-Dec-2025 Revision Number 1.05

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name p-Phenylenediacetonitrile

Other means of identification

**Product Code(s)** 324-66991,322-66992

Recommended use of the chemical and restrictions on use
Recommended Use For research use only.

Uses advised against Seek expert judgment when using for purposes other than those recommended.

Details of the supplier of the safety data sheet

Manufacturer Address Distributor

FUJIFILM Wako Pure Chemical Corporation FUJIFILM Irvine Scientific

1-2, Doshomachi 3-Chome, E. Warner Avenue, Santa Ana, CA 92705-5505, U.S.A.: +1 949 261 7800

Chuo-ku Osaka 540-8605, Japan Fax: +1 949 261 6522

Tel: +81-6-6203-3741 Fax: +81-6-6201-5964

# 2. HAZARDS IDENTIFICATION

#### **GHS** classification

Classification of the substance or mixture

Acute toxicity - OralCategory 4Acute toxicity - DermalCategory 4Acute toxicity - Inhalation (Dusts/Mists)Category 4Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2ASpecific target organ toxicity (single exposure)Category 3

Category 3 Respiratory irritation

**Pictograms** 



Signal word

Warning

# Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

#### **Precautionary statements-(Prevention)**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Precautionary statements-(Response)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

#### Precautionary statements-(Storage)

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### **Precautionary statements-(Disposal)**

Dispose of contents/container to an approved waste disposal plant

**Others** 

Other hazards Not available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula C10H8N2

Chemical Name	Molecular weight	CAS RN	Weight-%
1,4-Phenylenediacetonitrile	156.18	622-75-3	93

Impurities and/or Additives: Not applicable

#### 4. FIRST AID MEASURES

First aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water.

**Inhalation** Remove to fresh air.

**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.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media

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

Specific hazards arising from the chemical

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

Explosion data

Sensitivity to Mechanical none.

Impact

Sensitivity to Static Discharge none.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency

Ensure adequate ventilation, especially in confined areas.

procedures

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Avoid contact with strong oxidizing agents.

Protective measures Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed. Store locked up.

Packaging materials Glass.

Incompatible materials Strong oxidizing agents.

# 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 Not applicable

Chemical Name	ACGIH	OSHA PEL	NIOSH IDLH
1,4-Phenylenediacetonitrile	N/A	TWA: 5 mg/m <sup>3</sup> CN	IDLH: 25 mg/m <sup>3</sup> CN
622-75-3		(vacated) TWA: 5 mg/m <sup>3</sup>	-
		S* as CN	

Personal protective equipment

Respiratory protection Dust mask ( JIS T 8151 )

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

**General hygiene considerations** 

Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Colorpale brown - brownAppearancecrystals - crystalline powder

Odor
pH
no data available
no data available
no data available
94 - 96 °C
Boiling point, initial boiling point and boiling range
Flash point
Evaporation rate:
no data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
no data available
no data available
vapour pressure
no data available
vapour density
no data available
precific Gravity / Relative density
no data available

**Solubilities** Ethanol , acetone : soluble . water : practically insoluble,or

insoluble.

n-Octanol/water partition coefficient:(log Pow)no data availableAuto-ignition temperature:no data availableDecomposition temperature:no data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data availableParticle characteristicsno data available

# 10. STABILITY AND REACTIVITY

# **Stability**

Chemical stability Stable under recommended storage conditions.

**Reactivity** no data available

**Hazardous reactions** 

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

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

# 11. TOXICOLOGICAL INFORMATION

Acute toxicity no data available

Skin irritation/corrosionno data availableSerious eye damage/ irritationno data availableRespiratory or skin sensitizationno data availableReproductive cell mutagenicityno data availableCarcinogenicityno data available

Reproductive toxicityno data availableSTOT-single exposureno data availableSTOT-repeated exposureno data available

#### **Aspiration hazard**

no data available

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

no data available

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility

no data available

**Mobility in soil** No information available Other Data No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Precautionary including method of Disposal should be in accordance with applicable regional, national and local laws and disposing contaminated packaging regulations.

# 14. TRANSPORT INFORMATION

DOT Not regulated **UN/ID No** Not applicable

Proper shipping name: **UN classfication** Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IATA** Not regulated

UN/ID No Proper shipping name:

UN classfication Subsidiary hazard class

Packing group

**Environmentally Hazardous** 

Not applicable

**Substance** 

**IMDG** Not regulated

**UN/ID No** 

Proper shipping name: **UN classfication** 

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

# 15. REGULATORY INFORMATION

# **US Federal Regulations**

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
1,4-Phenylenediacetonitrile - 622-75-3	622-75-3	93	1.0
SARA 311/312 Hazard Categories			
Acute health hazard	No		
Chronic Health Hazard	No		
Fire hazard	No		

No

Nο

#### **CWA (Clean Water Act)**

**Reactive Hazard** 

Sudden release of pressure hazard

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
1,4-Phenylenediacetonitrile 622-75-3	N/A	Х	X	N/A

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

# **California Proposition 65**

This product does not contain any chemicals regulated by Proposition 65

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
1,4-Phenylenediacetonitrile	X	N/A	X
622-75-3			

# U.S. EPA Label Information

**EPA Pesticide Registration Number**Not applicable

# **16. OTHER INFORMATION**

Issue Date 12-Dec-2025

**Revision Note** 

No information available

**Disclaimer** 

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, use, processing, storage, transportation, disposal and release 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.

**End of Safety Data Sheet**