



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 19-May-2023 Revision Number 3.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	p-Tolunitrile			
Product Code	203-02132			
Manufacturer	FUJIFILM Wako Pure Chemical Corporation			

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Supplier 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

**Emergency telephone number** +81-6-6203-3741 / +81-3-3270-8571

Recommended uses For research use only

Restrictions on use Seek expert judgment when using for purposes other than those recommended.

### Section 2: HAZARDS IDENTIFICATION

**GHS** classification

Classification of the substance or mixture

Category 4 Flammable liquids **Acute toxicity - Dermal** Category 4 Acute toxicity - Inhalation (Vapors) Category 4 Category 2B Serious eye damage/eye irritation

### **Pictograms**



Signal word

Warning

### **Hazard statements**

H227 - Combustible liquid

H320 - Causes eye irritation

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

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

- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- · Wash face, hands and any exposed skin thoroughly after handling
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Wear protective gloves/protective clothing/eye protection/face protection

### Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
- 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
- · Wash contaminated clothing 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
- In case of fire: Use CO2, dry chemical, or foam for extinction

# **Precautionary statements-(Storage)**

· Store in a well-ventilated place. Keep cool

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

• Dispose of contents/container to an approved waste disposal plant

**Others** 

Other hazards Not available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula CH3C6H4CN

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
p-Tolunitrile	98.0	117.15	(3)-1804	*	104-85-8

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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

### 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 Keep container protect from light and tightly closed in well ventilated cool place under

25°C Store locked up.

Glass

Safe packaging material

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 Dust mask (JIS T 8151)

**Hand protection** chemical protective gloves (JIS T 8116) **Eye protection** protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form** 

Color White - yellow brown , ( upon melting ) Colorless - yellowish

brown clear

**Turbidity** cle

Appearance crystals or mass , ( upon melting ) liquid

**Odor** characteristic odor

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25 - 28 °C Melting point/freezing point Boiling point, initial boiling point and boiling range 217 °C

**Flammability** Combustible liquid 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: 85 °C / 185 °F Flash point no data available **Auto-ignition temperature: Decomposition temperature:** no data available no data available no data available Viscosity (coefficient of viscosity)

Dynamic viscosity no data available

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

insoluble.

n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available

Specific Gravity / Relative density 0.981 Vapour density 4.0

**Particle characteristics** 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

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

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

### Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
p-Tolunitrile	3800mg/kg(Rat)	N/A	N/A

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

# **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 Not regulated

UN number -

Proper shipping name: UN classfication Subsidiary hazard class

Subsidiary nazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA Not regulated

UN number -

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Environmentally Hazardous

Not applicable

Substance

# **Section 15: REGULATORY INFORMATION**

**International Inventories** 

**EINECS/ELINCS** Listed Listed

Japanese regulations

Fire Service Act Not applicable

Poisonous and Deleterious Deleterious Substances 3rd. Grade

**Substances Control Law** 

Industrial Safety and Health Act Not applicable Regulations for the carriage Not applicable

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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

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (2023.4.1-)
p-Tolunitrile 104-85-8 ( 98.0 )	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.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

**Record of SDS revisions** 

The following contents were revised. Prodauct and company Identification. Exposure

controls/personal protection. Regulatory information.

### **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**