



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 03-Feb-2023 Revision Number 2.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	p-Fluoroaniline
Product Code	067-00332
Manufacturor	ELLIEU M Wake Dure Chemical Corneration

FUJIFILM Wako Pure Chemical Corporation Manufacture

1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741

Fax: +81-6-6203-5964 Supplier FUJIFILM Wako Pure Chemical Corporation

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Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

For research use only

**Emergency telephone number** 

+81-6-6203-3741 / +81-3-3270-8571

Recommended uses and

restrictions on use

# **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

Classification of the substance or mixture

Category 4 Flammable liquids Acute toxicity - Oral Category 4 Serious eye damage/eye irritation Category 2A Acute aquatic toxicity Category 3 Chronic aquatic toxicity Category 3

# **Pictograms**



Signal word Warning

#### **Hazard statements**

H227 - Combustible liquid

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

## **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 release to the environment
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

## **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 SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- 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 FC6H4NH2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
p-Fluoroaniline	95.0	111.12	(3)-222	*	371-40-4

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**

Highly flammable. Avoid contact with high temperature objects, spark, and 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

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Storage

#### 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 Protective mask Protective gloves

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** 

Colorless - dark reddish brown

Turbidity clear Appearance liquid

**Odor** characteristic odor

Melting point/freezing point  $$-1.9~^{\circ}\text{C}$$  Boiling point, initial boiling point and boiling range  $$188~^{\circ}\text{C}$$ 

Flammability Combustible liquid Evaporation rate: no data available Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits

Upper:no data availableLower:no data available

Flash point 73 °C

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

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

insoluble.

n-Octanol/water partition coefficient:(log Pow)no data availableVapour pressureno data availableSpecific Gravity / Relative density1.156 - 1.164 g/mLVapour density3.85 (air=1)

Vapour density3.85 (air=1)Particle characteristicsno 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

Incompatible materials

Strong oxidizing agents

# Hazardous decomposition products

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

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
p-Fluoroaniline	417 mg/kg (Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
p-Fluoroaniline	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
'	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
p-Fluoroaniline	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
•	classification results	classification results	classification results

## Skin irritation/corrosion

p-Fluoroaniline Based on the NITE GHS classification results.	Chemical Name	Skin corrosion/irritation source information
p i idorodi iliino	p-Fluoroaniline	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
p-Fluoroaniline	Based on the NITE GHS classification results.

Respiratory or skin sensitization

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Chemical Name	Respiratory or Skin sensitization source information
p-Fluoroaniline	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
p-Fluoroaniline	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
p-Fluoroaniline	Based on the NITE GHS classification results.

Reproductive toxicity

	Chemical Name	Reproductive toxicity source information
	p-Fluoroaniline	Based on the NITE GHS classification results.
ST	OT-single exposure	

Chemical Name	STOT -single exposure- source information
p-Fluoroaniline	Based on the NITE GHS classification results.
OTOT	

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
p-Fluoroaniline	Based on the NITE GHS classification results.
A authorities in become	

Aspiration hazard

Chemical Name	Aspiration Hazard source information
p-Fluoroaniline	Based on the NITE GHS classification results.

# **Section 12: ECOLOGICAL INFORMATION**

# **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
p-Fluoroaniline	N/A	LC50:Pimephales promelas	N/A
		16.9 mg/L 96 h	

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
r		Based on the NITE GHS classification results.

Persistence and degradability **Bioaccumulative potential** Mobility in soil

Hazard to the ozone layer

**Mobility** 

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 UN2941 Fluoroanilines Proper shipping name:

6.1

**UN classfication** 

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** 

UN2941 **UN** number Proper shipping name: Fluoroanilines

**UN classfication** 6 1

Subsidiary hazard class

Packing group

Not applicable Marine pollutant (Sea)

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

**UN** number LIN2941 Proper shipping name: Fluoroanilines

**UN classfication** 

Subsidiary hazard class

Ш Packing group

**Environmentally Hazardous** Not applicable

Substance

# **Section 15: REGULATORY INFORMATION**

**International Inventories** 

Listed **EINECS/ELINCS** Listed **TSCA** 

Japanese regulations

Category IV, Class III petroleums, dangerous grade 3 **Fire Service Act** 

**Poisonous and Deleterious** Not applicable

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

Toxic Substances - Poison (Ordinance Art.3. Ministry of Transportation Ordinance Regulations for the carriage

and storage of dangerous

Regarding Transport by Ship and Storage, Attached Table 1)

goods in ship

**Civil Aeronautics Law** Toxic and Infectious Substances (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

Register Law (2023/4/1~)

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.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

# **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**