



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 22-Feb-2024

Revision Number 6.04

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	1-Fluoro-2,4-dinitrobenzene
Product Code	043-03512

Supplier FUJIFILM Wako Pure Chemical Corporation

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**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
Skin corrosion/irritation

Skin corrosion/irritationCategory 2Skin sensitizationCategory 1

**Pictograms** 



Signal word Warning

### **Hazard statements**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

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

- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Contaminated work clothing should not be allowed out of the workplace

#### Precautionary statements-(Response)

- IF ON SKIN: Wash with plenty of soap and water
- Take off contaminated clothing and wash before reuse
- If skin irritation or rash occurs: Get medical advice/attention

### 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

#### Single Substance or Mixture Substance

Formula FC6H3(NO2)2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
1-Fluoro-2,4-dinitrobenz	99.0	186.10	(3)-456	公表	70-34-8
ene					

Note on ISHL No.:

#### 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.

<sup>\*</sup> in the table means announced chemical substances.

### Section 7: HANDLING AND STORAGE

#### **Handling**

#### **Technical measures**

Do not give shock. 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, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed.

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

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.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to

them.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color slightly yellow - reddish yellow

Turbidity clear Appearance liquid

**Odor** no data available

Melting point/freezing point 25 °C Boiling point, initial boiling point and boiling range 178 °C

Flammability no data available
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 no data available
Auto-ignition temperature: no data available
Decomposition temperature: no data available
pH no data available
Viscosity (coefficient of viscosity) no data available

**Dynamic viscosity**Solubilities
no data available
Diethyl ether: Very soluble. Ethanol: freely 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 1.482

Vapour densityno data availableParticle 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, 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	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
1-Fluoro-2,4-dinitrobenzene	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
1-Fluoro-2,4-dinitrobenzene	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
1-Fluoro-2,4-dinitrobenzene	Based on the NITE GHS classification results.
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Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
1-Fluoro-2,4-dinitrobenzene	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
1-Fluoro-2.4-dinitrobenzene	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
1-Fluoro-2,4-dinitrobenzene	Based on the NITE GHS classification results.
Carainaganiaity	

Carcinogenicity

Chemical Name	Carcinogenicity source information
1-Fluoro-2,4-dinitrobenzene	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
1-Fluoro-2,4-dinitrobenzene	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
1-Fluoro-2,4-dinitrobenzene	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
1-Fluoro-2,4-dinitrobenzene	Based on the NITE GHS classification results.

**Aspiration hazard** 

Chemical Name	Aspiration Hazard source information	
1-Fluoro-2,4-dinitrobenzene	Based on the NITE GHS classification results.	

# **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information available

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
	aquatic environment source information	aquatic environment source information	
1-Fluoro-2,4-dinitrobenzene	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	

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

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**

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 Act Not applicable

Industrial Safety and Health Act ( [2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Regulations for the carriage and storage of dangerous

Not applicable

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

### **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 Disclaimer** 

The following contents were revised. Regulatory information.

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**