



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 11-Sep-2024

Revision Number 2.06

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name 3,4-Dichloroaniline	
Product Code 049-07992,043-07995	

Supplier FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

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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

Acute toxicity - OralCategory 4Acute toxicity - DermalCategory 3Acute toxicity - Inhalation (Dusts/Mists)Category 4Serious eye damage/eye irritationCategory 2ASkin sensitizationCategory 1

Specific target organ toxicity (single exposure) Category 1, Category 2

Category 1 blood system

Category 2 nervous system

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 blood system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

### **Pictograms**



#### **Hazard statements**

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H311 - Toxic in contact with skin

H332 - Harmful if inhaled

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H370 - Causes damage to the following organs: blood system

H371 - May cause damage to the following organs: nervous system

H372 - Causes damage to the following organs through prolonged or repeated exposure: blood system

#### **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
- · Use only outdoors or in a well-ventilated area
- · Contaminated work clothing should not be allowed out of the workplace
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Avoid release to the environment

### Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- 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
- · Remove/Take off immediately all contaminated clothing
- · Wash contaminated clothing before reuse
- If skin irritation or rash occurs: Get medical advice/attention
- 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
- Collect spillage

#### Precautionary statements-(Storage)

Store locked up

#### 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 CI2C6H3NH2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
3,4-Dichloroaniline	98.0	162.02	(3)-261	*	95-76-1

Note on ISHL No.: \* in the table means announced chemical substances.

## **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

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

#### **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, 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 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.

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** 

ColorWhite - dark brownAppearancecrystals - powder or massOdorcharacteristic odor

Melting point/freezing point 71 - 75 °C Boiling point, initial boiling point and boiling range 272 °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 166 °C

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

**Solubilities** Ethanol and acetone: freely soluble. water: practically

insoluble, or insoluble.

n-Octanol/water partition coefficient:(log Pow) 2.69

Vapour pressureno data availableSpecific Gravity / Relative densityno data availableVapour 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

Incompatible materials

Strong oxidizing agents

**Hazardous decomposition products** 

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

## Section 11: TOXICOLOGICAL INFORMATION

the NITE GHS classification results.

Reproductive toxicity source information

\*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
3,4-Dichloroaniline	= 545 mg/kg (Rat)	631 - 1000 mg/kg (Rabbit)	> 0.631 mg/L (Rat) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
o, i Bioinoroa illino			Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	•	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
3,4-Dichloroaniline	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	
3,4-Dichloroaniline	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		
Chamical Name	Sorious ava damaga/irritation source information	

	3,4-Dichloroaniline	Based o	n

**Chemical Name** 

Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
3,4-Dichloroaniline	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
3,4-Dichloroaniline	Based on the NITE GHS classification results.
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Carcinogenicity

Chemical Name	Carcinogenicity source information
3,4-Dichloroaniline	Based on the NITE GHS classification results.

Reproductive toxicity

3,4-Dichloroaniline	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
	D

Cnemical Name	5101 -single exposure- source information	
3,4-Dichloroaniline	Based on the NITE GHS classification results.	

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information		
3,4-Dichloroaniline	Based on the NITE GHS classification results.		
Asniration hazard			

Chemical Name	Aspiration Hazard source information	
3,4-Dichloroaniline	Based on the NITE GHS classification results.	

# **Section 12: ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
3,4-Dichloroaniline	EC50:Pseudokirchneriella	LC50:Pimephales promelas	EC50:Daphnia magna
	subcapitata	6.55 - 7.47 mg/L 96 h	0.11 - 0.33 mg/L 48 h
	0.58 - 0.94 mg/L 96 h static	LC50:Pimephales promelas	EC50:Artemia salina
	EC50:Phaeodactylum	6.99 - 8.06 mg/L 96 h	9 mg/L 48 h
	tricornutum	LC50:Poecilia reticulata	
	0.45 mg/L 96 h	3.5 mg/L 96 h	

<sup>\*</sup>NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

4.98 mg/L 72 h static
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#### Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
3,4-Dichloroaniline	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

UN number UN3442

Proper shipping name: Dichloroanilines, solid

UN classfication 6.1

Subsidiary hazard class

Packing group II
Marine pollutant Yes

**IMDG** 

UN number UN3442

Proper shipping name: Dichloroanilines, solid

UN classfication 6.1
Subsidiary hazard class
Packing group II
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 UN3442

Proper shipping name: Dichloroanilines, solid

UN classfication 6.1

Subsidiary hazard class

Packing group II Environmentally Hazardous Yes

Substance

## **Section 15: REGULATORY INFORMATION**

Japanese regulations

**Fire Service Act** Not applicable **Poisonous and Deleterious** Not applicable **Substances Control Law** 

Industrial Safety and Health Act Not applicable

2024~)

【2025.4.1~】 Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Industrial Safety and Health Act (

【2025.4.1~】Notifiable Substances (Law Art.57-2)

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)

**Marine Pollution Prevention** 

Marine pollutants (P and PP substances)

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Pollutant Release and Transfer Class 1

**Register Law** (2023.4.1-)

Class 1 - No. 156

**Export Trade Control Order** Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
3,4-Dichloroaniline 95-76-1 ( 98.0 )	-	-	Applicable

## **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

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.

**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**