



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 22-Mar-2022 Revision Number 2.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Chloroacetic Acid		
Product Code	033-02232,037-02235		
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964		
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 For research use only

Recommended uses and restrictions on use

# **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

Classification of the substance or mixture

Category 3 Acute toxicity - Oral Acute toxicity - Dermal Category 2 Acute toxicity - Inhalation (Dusts/Mists) Category 2 Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1 Specific target organ toxicity (single exposure) Category 1 Category 1 nervous system, respiratory system, cardiovascular system, blood system, liver, kidneys Specific target organ toxicity (repeated exposure) Category 2 Category 2 heart, liver, kidneys

Acute aquatic toxicity Category 1 Chronic aquatic toxicity Category 1

### **Pictograms**



#### **Hazard statements**

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eve damage

H301 - Toxic if swallowed

H310 - Fatal in contact with skin

H330 - Fatal if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H370 - Causes damage to the following organs: nervous system, respiratory system, cardiovascular system, blood

system, liver, kidneys

H373 - May cause damage to the following organs through prolonged or repeated exposure: heart, liver, kidneys

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

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not get in eyes, on skin, or on clothing
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- Avoid release to the environment

### Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician
- · Wash contaminated clothing before reuse
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth
- · Do NOT induce vomiting
- · 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 CH2CICOOH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Chloroacetic Acid	99.0	94.50	(2)-1145	*	79-11-8

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

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** Store away from sunlight in well-ventilated place at room temperature (under 25 °C).

Keep container tightly closed. Store locked up.

Safe packaging material

Polyethylene

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**

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Chloroacetic Acid	N/A	N/A	TWA: 0.5 ppm inhalable
79-11-8			fraction and vapor

Skin

Personal protective equipment

Respiratory protection Dust mask

Hand protection Impermeable protective gloves

Eye protection protective eyeglasses or chemical safety goggles, Face protection shield

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

Appearance crystals - crystalline powder or mass

OdorPungent odorMelting point/freezing point60.0 - 65.0 °C

Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):

188 °C
no data available
no data available
no data available

Upper/lower flammability or

explosive limits

Upper: no data available

 Lower:
 8.0 vol%

 Flash point
 126 °C

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

**Dynamic viscosity** no data available

Solubilities water: Very soluble. Ethanol, Diethyl ether: free soluble. no data available

Vapour pressure no data available no data available

Specific Gravity / Relative density

1.4

Vapour density

3.3 (air = 1)

Particle characteristics

no data available

# **Section 10: STABILITY AND REACTIVITY**

### **Stability**

**Reactivity** no data available

Chemical stability This material is deliquescent.

**Hazardous reactions** 

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Moisture

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Halides

# Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Chloroacetic Acid	55 mg/kg ( Rat )	250 mg/kg (Rabbit)	180 mg/m³ (Rat) 4 h

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-

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source information

information

information

011101040041071014			Based on the NITE GHS classification results.
Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist- source information
	vapor- source information	Source information	Source illiorillation
Chloroacetic Acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	Classification results.	classification results.	Classification results.

Chemical Name	Skin corrosion/irritation source information
Chloroacetic Acid	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
Chloroacetic Acid	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Chloroacetic Acid	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Chloroacetic Acid	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
Chloroacetic Acid	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Chloroacetic Acid	-	-	-	-
79-11-8				

Reproductive toxicity

Chloroacetic Acid Based on the NITE GHS classification results	Chemical Name	Reproductive toxicity source information
Officiological Acid Substitution Testino.	Chloroacetic Acid	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	5101 -single exposure- source information
Chloroacetic Acid	Based on the NITE GHS classification results.
noated exposure	

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Chloroacetic Acid	Based on the NITE GHS classification results.

**Aspiration hazard** 

Chemical Name	Aspiration Hazard source information
Chloroacetic Acid	Based on the NITE GHS classification results.

# **Section 12: ECOLOGICAL INFORMATION**

# **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Chloroacetic Acid	ErC50: Scenedesmus	LC50:Pimephales promelas	EC50:Daphnia magna
	0.033mg/L 72 h	145 mg/L 96 h	77 mg/L 48 h

Other data

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

Persistence and degradability No information available Bioaccumulative potential No information available No information available Mobility in soil Hazard to the ozone layer No information available

### **Mobility**

## **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 UN1751

Proper shipping name: Chloroacetic acid, solid

UN classfication 6.1
Subsidiary hazard class
Packing group II
Marine pollutant Yes

**IMDG** 

UN number UN1751

Proper shipping name: Chloroacetic acid, solid

UN classfication 6.1
Subsidiary hazard class 8
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 UN1751

Proper shipping name: Chloroacetic acid, solid

UN classfication 6.1
Subsidiary hazard class
Packing group II
Environmentally Hazardous Yes

Substance

# Section 15: REGULATORY INFORMATION

**International Inventories** 

EINECS/ELINCS Listed
TSCA Listed

Japanese regulations

Fire Service Act Firefighting Inhibitor

Poisonous and Deleterious Deleterious Substances 2nd. Grade

**Substances Control Law** 

Industrial Safety and Health Act Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table

No.9)No.148-2

Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57,

Para.1, Enforcement Order Art.18)
Priority Assessment Chemical Substances (Law Article 2, Para.5)

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc

Regulations for the carriage

and storage of dangerous

goods in ship

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

Regarding Transport by Ship and Storage, Attached Table 1)

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 Class 1

Register Law (~2023.3.31)

**Class 1 - No.** 98

Pollutant Release and Transfer Class 1

Register Law (2023/4/1~)

<u>Class 1 - No.</u> 98

**Export Trade Control Order** Not applicable

Air Pollution Control Law Hazardous Air Pollutants

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 (~2023.3.31)
Chloroacetic Acid 79-11-8 ( 99.0 )	Applicable	Applicable	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

#### **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**