



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 26-Feb-2024 Revision Number 2.04

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	lodomethane
Product Code	131-02661,139-02662,133-02665,137-02663

FUJIFILM Wako Pure Chemical Corporation **Supplier** 

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

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

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

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 3 **Acute toxicity - Oral Acute toxicity - Inhalation (Vapors)** Category 2 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A

Specific target organ toxicity (single exposure) Category 1, Category 3

Category 1 central nervous system

Category 3 Respiratory irritation, Narcotic effects

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

Category 1 central nervous system

Category 2 respiratory system, thyroid gland

### **Pictograms**



Signal word

Danger

#### **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H301 - Toxic if swallowed

H330 - Fatal if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H370 - Causes damage to the following organs: central nervous system

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

H373 - May cause damage to the following organs through prolonged or repeated exposure: respiratory system, thyroid gland

### **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
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area

#### 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
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash 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
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth

### Precautionary statements-(Storage)

- · Store locked up
- Store in a well-ventilated place. Keep container tightly closed

## 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 CH3I

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Iodomethane	99.5	141.94	(2)-42	*	74-88-4

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

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

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**

Flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. To cut with care and wear protective gloves and protective goggles to ampoule time of the opening (Cutting method to check the label). 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. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

#### 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. Store locked up.

Safe packaging material

Ampoule, 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**

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Iodomethane	ISHL/ACL: 2 ppm	ISHL/ACL: 2 ppm	TWA: 2 ppm

74-88-4		Skin

Personal protective equipment

**Respiratory protection** gas mask for organic gas (JIS T 8152) **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** 

Colorless - slight brown

Turbidity clear Appearance liquid

**Odor** characteristic odor

Melting point/freezing point -64 °C
Boiling point, initial boiling point and boiling range 43 °C

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

Upper/lower flammability or explosive limits

 Upper:
 66 vol%

 Lower:
 8.5 vol%

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 no data available

**Solubilities** Ethanol , Diethyl ether : Very soluble. water : soluble .

n-Octanol/water partition coefficient:(log Pow) 1.55

Vapour pressure 50 kPa (20°C)

Specific Gravity / Relative density 2.28 Vapour density 4.9

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, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents

**Hazardous decomposition products** 

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

## Section 11: TOXICOLOGICAL INFORMATION

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Acui	てい	cicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iodomethane	76 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	1300 mg/m³ (Rat)4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
iodomotriario			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
Iodomethane	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
Iodomethane	Based on the NITE GHS classification results.

## Serious eye damage/ irritation

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

## Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Iodomethane	Based on the NITE GHS classification results.

## Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
lodomethane	Based on the NITE GHS classification results.

## Carcinogenicity

Chemical Name	Carcinogenicity source information	
Iodomethane	Based on the NITE GHS classification results.	

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Iodomethane		Group 2A		
74-88-4		Group 3		

### Reproductive toxicity

	Reproductive texicity		
Chemical Name		Reproductive toxicity source information	
	lodomethane	Based on the NITE GHS classification results.	

## STOT-single exposure

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

## STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
lodomethane	Based on the NITE GHS classification results.	
Assisation beauty		

### **Aspiration hazard**

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

# **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information available

#### Other data

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

Persistence and degradability No information available

Bioaccumulative potential

Mobility in soil

No information available No information available Hazard to the ozone layer

## Section 13: DISPOSAL CONSIDERATIONS

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

No information available

#### 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 UN2644 Proper shipping name: Methyl iodide

**UN classfication** 6.1

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** 

**UN** number UN2644 Proper shipping name: Methyl iodide

**UN classfication** 6.1

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** Forbidden **UN** number UN2644 Proper shipping name: Methyl iodide

**UN classfication** 

Subsidiary hazard class

Packing group

**Environmentally Hazardous** 

Not applicable

**Substance** 

## Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable

Poisonous and Deleterious Deleterious Substances 2nd. Grade

**Substances Control Law** 

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2) Group 2 Specified Chemical Substance

Mutagens - Existing Chemicals

Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2,

Para.1) 【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Industrial Safety and Health Act (

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

Regulations for the carriage Regarding Transport by Ship and Storage, Attached Table 1) and storage of dangerous

goods in ship

**Civil Aeronautics Law** Forbidden (Ordinance Art.194)

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)	Pollutant Release and Transfer Register Law (2023.4.1-)
lodomethane 74-88-4 ( 99.5 )	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

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**