



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 26-Feb-2024 Revision Number 2.05

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	lodomethane
Product Code	130-02675
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
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 <u>Classification of the substance or mixture</u> Acute toxicity - Oral Acute toxicity - Inhalation (Vapors) Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Category 1 central nervous system Category 3 Respiratory irritation, Narcotic effects Specific target organ toxicity (repeated exposure)

Category 1 central nervous system Category 2 respiratory system, thyroid gland Category 3 Category 2 Category 2 Category 2A Category 1, Category 3

Category 1, Category 2

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

- 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

Substance Single Substance or Mixture

Formula

CH3I

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
lodomethane	95.0	141.94	(2)-42	*	74-88-4
Copper	-	63.546	-	N/A	7440-50-8
Note on ISHL No.: * in the table means announced chemical substances.					

Note on ISHL No.:

Impurities and/or Additives:

Stabilizer: Copper, Wire

# 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.

#### Eve 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.

#### Indestion

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**

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

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	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 74-88-4	ISHL/ACL: 2 ppm	ISHL/ACL: 2 ppm	TWA: 2 ppm Skin
Copper 7440-50-8	N/A	N/A	TWA: 0.2 mg/m <sup>3</sup> fume

#### Personal protective equipment

Respiratory protection

Hand protection Eye protection Skin and body protection gas mask for organic gas (JIS T 8152) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

Colorless - brown

### 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 Turbidity Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability **Evaporation rate:** Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: **Decomposition temperature:** рΗ Viscosity (coefficient of viscosity) **Dynamic viscosity** Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density **Particle characteristics** 

clear liquid characteristic odor -64 °C 43 °C no data available no data available no data available 66 vol% 8.5 vol% no data available Ethanol, Diethyl ether: Very soluble. water: soluble. 1.55 50 kPa (20°C) 2.28 g/mL 4.9 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

Acute toxicity

Acute toxicity Chemical Name	Oral LD	50		Dermal LD50	In	halation LC50
lodomethane	76 mg/kg (		> 2	000 mg/kg (Rabbit)		mg/m <sup>3</sup> (Rat) 4 h
locomethane	70 mg/kg (		>2		1300	1119/11 <sup>8</sup> (Kat) 4 11
Chamical Name	A cuto toxici	ty and course	140	uto toxicity, dormal, cour		ovicity inholation of
Chemical Name		ty -oral- source	AC	ute toxicity -dermal- sour information		ource information
lodomethane	Based on the N classification re		Based on the NITE GHS			n the NITE GHS ation results.
Copper	Based on the N classification re	IITE GHS	Bas	ed on the NITE GHS	Based o	n the NITE GHS ation results.
	classification re	50113.	Ulda		Classifica	
Chemical Name	Acute toxic	ity -inhalation	Ac	ute toxicity -inhalation du	st- Acute t	oxicity -inhalation mi
	vapor- sour	ce information		source information	s	ource information
Iodomethane	Based on the N	IITE GHS	Bas	ed on the NITE GHS	Based o	n the NITE GHS
	Classification re			sification results.		ation results.
Copper	Based on the N	IITE GHS	Bas	ed on the NITE GHS	Based o	n the NITE GHS
	classification re	esults.	clas	sification results.	classifica	ation results.
kin irritation/corrosion						
	ical Name			Skin corrosion/irri		
lodo	methane			ased on the NITE GHS clas		
	Copper		В	ased on the NITE GHS clas	ssification re	esults.
erious eye damage/ irritation						
	ical Name		Serious eye damage/irritation source information			
	methane			ased on the NITE GHS clas		
	Copper		Based on the NITE GHS classification results.			
espiratory or skin sensitizati						
Chemical Name				Respiratory or Skin se		
lodomethane			ased on the NITE GHS clas			
Copper			В	ased on the NITE GHS clas	ssification re	esults.
eproductive cell mutagenicit						
Chem	ical Name			germ cell mutage	ncity source	e information
lodo	methane		В	ased on the NITE GHS clas	ssification re	esults.
С	Copper		В	ased on the NITE GHS clas	ssification re	sults.
arcinogenicity						
	ical Name			Carcinogenici	ty source i	nformation
	methane		В	ased on the NITE GHS clas	sification re	sults.
С	Copper		В	ased on the NITE GHS clas	ssification re	esults.
				1450	4000	
Chemical Nan Iodomethane		NTP			ACGIH	JSOH (Japan)
74-88-4				Group 2A Group 3		
eproductive toxicity						
	ical Name			Reproductive to	cicity sourc	e information
	methane		Based on the NITE GHS classification results.			
Copper				Based on the NITE GHS classification results.		
TOT-single exposure	юрроп					
	ical Name			STOT -single expo	osure- sour	ce information
Iodomethane		Based on the NITE GHS classification results.				
	Copper		В	ased on the NITE GHS clas	sification re	esults.
TOT-repeated exposure	-16					
	ical Name			STOT -repeated exp	osure- sou	Irce information
	methane		Based on the NITE GHS classification results.			
	Copper		Based on the NITE GHS classification results.			
spiration hazard						

Copper

Based on the NITE GHS classification results.

# Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Copper	EC50:Pseudokirchneriella	LC50:Pimephales promelas	EC50:Daphnia magna
	subcapitata	0.2 mg/L 96 h	0.03 mg/L 48 h
	0.031 - 0.054 mg/L 96 h static	LC50:Oncorhynchus mykiss	
	EC50:Pseudokirchneriella	0.052 mg/L 96 h	
	subcapitata	LC50:Cyprinus carpio	
	0.0426 - 0.0535 mg/L 72 h	0.8 mg/L 96 h	
	static	J	

#### Other data

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

Persistence and degradability	No inforn
Bioaccumulative potential	No inforn
Mobility in soil	No inform
Hazard to the ozone layer	No inforn

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 Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN2644 Methyl iodide 6.1 I Not applicable
IMDG	
UN number	UN2644
Proper shipping name:	Methyl iodide
UN classfication	6.1
Subsidiary hazard class	
Packing group	1
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	Forbidden
UN number	UN2644
Proper shipping name:	Methyl iodide
· F · · · · F · · · <b>J</b> · · · · · · ·	

UN classification 6.1 Subsidiary hazard class Packing group Environmentally Hazardous Not applicable Substance

# Section 15: REGULATORY INFORMATION

Ja	panese 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)
	Industrial Safety and Health Act (	[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
	<u>2024~)</u>	
	Regulations for the carriage	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance
	and storage of dangerous	Regarding Transport by Ship and Storage, Attached Table 1)
	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(95.0)	Applicable	Applicable	-
Copper 7440-50-8(-)	-	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	The following contents were revised. Regulatory information.

#### Record of SDS revis 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 Z 7252:2019. \*JIS: Japanese Industrial Standards

End of Safety Data Sheet