



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 26-Feb-2024 Revision Number 3.09

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Dichloromethane for Pesticide Residue And Polychlorinated Biphenyl Analysis
Product Code	049-28453,043-28451
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 Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only 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 - Inhalation (Vapors) Skin corrosion/irritation Serious eye damage/eye irritation Carcinogenicity Reproductive Toxicity	Category 4 Category 2 Category 2A Category 1A Category 2
Specific target organ toxicity (single exposure)	Category 1, Category 3
Category 1 central nervous system, respiratory system	
Category 3 Narcotic effects Specific target organ toxicity (repeated exposure)	Category 1
Category 1 central nervous system, liver, Male reproductive organ	
Acute aquatic toxicity	Category 3
Chronic aquatic toxicity	Category 3

Pictograms



Signal word

Danger

Hazard statements

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H350 May cause cancer
- H361 Suspected of damaging fertility or the unborn child
- H336 May cause drowsiness or dizziness
- H402 Harmful to aquatic life
- H412 Harmful to aquatic life with long lasting effects
- H370 Causes damage to the following organs: central nervous system, respiratory system

H372 - Causes damage to the following organs through prolonged or repeated exposure: central nervous system, liver, Male reproductive organ

Precautionary statements-(Prevention)

- · Obtain special instructions before use
- · Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- · Use only outdoors or in a well-ventilated area
- Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Do not eat, drink or smoke when using this product
- 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
- 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

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

CH2CI2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Dichloromethane	99.5	84.93	(2)-36	*	75-09-2
Methanol	0.2 - 0.5	32.04	(2)-201	*	67-56-1

Note on ISHL No.:

* in the table means announced chemical substances.

Impurities and/or Additives:

Stabilizer: Methanol 0.2 - 0.5 %

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment 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

Avoid contact with strong oxidizing agents. Avoid contact with strong bases. 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

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity) 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, Strong bases

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
Dichloromethane 75-09-2	Ceiling: 100 ppm Ceiling: 347 mg/m ³ TWA: 173 mg/m ³ OEL Skin ISHL/ACL: 50 ppm	ISHL/ACL: 50 ppm	TWA: 50 ppm
Methanol 67-56-1	TWA: 200 ppm OEL TWA: 260 mg/m ³ OEL Skin ISHL/ACL: 200 ppm	200ppm	TWA 200ppm(260mg/m ³) STEL 250ppm

Personal protective equipment

Respiratory protection Hand protection Eye protection Skin and body protection Protective mask chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) 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

Form	
Color	colorless
Turbidity	clear
Appearance	liquid
Odor	characteristic odor
Melting point/freezing point	-97 °C
Boiling point, initial boiling point and boiling range	40 °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 available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	556 °C
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	Ethanol and Diethyl ether : Very soluble. water : sparingly
	soluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	47.4 kPa
Specific Gravity / Relative density	1.315 - 1.330 g/mL
Vapour density	2.9 (air = 1)
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, Strong bases

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dichloromethane	2120 mg/kg (Rat Male)	N/A	18,371 ppm(Rat)4 h
Methanol	1400 mg/kg (Human)	15800 mg/kg (Rabbit)	>31500 ppm(Rat)4 h (vapor)

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	
	information	information	source information
Dichloromethane	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Methanol	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	Acute toxicity -inhalation dust-	Agute texisity, inhelation mist
	Acute toxicity -initialation	Acute toxicity "initialation dust"	Acute toxicity -initialation mist-
Chemical Name	vapor- source information	source information	source information
Dichloromethane		source information	-
	vapor- source information	source information Based on the NITE GHS	source information
	vapor- source information Based on the NITE GHS	source information Based on the NITE GHS classification results.	source information Based on the NITE GHS

classification results.

Classification results.

Skin irritation/corrosion

Chemical Name		Skin corrosi	on/irritation sourc	e information
Dichloromethane	E	Based on the NITE GHS classification results.		
Methanol	E	Based on the NITE GH	S classification res	ults.
Serious eye damage/ irritation				
Chemical Name		Serious eye dar	mage/irritation so	urce information
Dichloromethane	E	Based on the NITE GH	S classification res	ults.
Methanol	E	Based on the NITE GH	S classification res	ults.
Respiratory or skin sensitization	· · · · ·			
Chemical Name		Respiratory or SI	in sensitization s	ource information
Dichloromethane	E	Based on the NITE GHS classification results.		
Methanol	E	Based on the NITE GHS classification results.		
Reproductive cell mutagenicity				
Chemical Name		germ cell m	utagencity source	e information
Dichloromethane	E	Based on the NITE GHS classification results.		
Methanol	E	Based on the NITE GHS classification results.		
Carcinogenicity	·			
Chemical Name		Carcinogenicity source information		
Dichloromethane	E	Based on the NITE GHS classification results.		
Methanol	E	Based on the NITE GHS classification results.		
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)

classification results.

Dichloromethane	Reasonably	Group 2A	A3	Group 2A	
75-09-2	Anticipated				
eproductive toxicity					
Chemical Name		Reproductiv	ve toxicity source	information	
Dichloromethane		Based on the NITE GH	S classification res	ults.	
Methanol		Based on the NITE GH	S classification res	ults.	
STOT-single exposure					
Chemical Name		STOT -single	exposure- source	e information	
Dichloromethane	Dichloromethane		Based on the NITE GHS classification results.		
Methanol Based on the NITE GHS classification re		S classification res	ults.		
STOT-repeated exposure					
Chemical Name		STOT -repeate	d exposure- sour	ce information	
Dichloromethane		Based on the NITE GHS classification results.			
Methanol		Based on the NITE GHS classification results.			
Aspiration hazard					
Chemical Name		Aspiration	Hazard source in	formation	
Dichloromethane		Based on the NITE GHS classification results.			
Methanol		Based on the NITE GHS classification results.			

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Dichloromethane	N/A	N/A	EC50:Daphnia magna
			27 mg/L 48 h
Methanol	N/A	LC50 : Lepomis macrochirus	LC50 : Artemia
		15400 mg/L 96 h	1340 mg/L 96 h

Other data

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

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

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

UN1593 Dichloromethane 6.1

Packing group Marine pollutant	III Not applicable
IMDG	
UN number	UN1593
Proper shipping name:	Dichloromethane
UN classfication	6.1
Subsidiary hazard class	
Packing group	111
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	
UN number	UN1593
Proper shipping name:	Dichloromethane
UN classfication	6.1
Subsidiary hazard class	
Packing group	III
Environmentally Hazardous	Not applicable
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	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
	Substances with Health Hazards Prevention Guideline(Carcinogenicity Substance)
	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>	
Act on the Evaluation of	Priority Assessment Chemical Substances (Law Article 2, Para.5)
Chemical Substances and	
Regulation of Their	
Manufacture, etc	
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	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	
(2023.4.1-)	
Class 1 - No.	186
Water Pollution Control Act	Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating
	Wastewater Standards Art.1)
Export Trade Control Order	Not applicable
Air Pollution Control Law	Priority Chemical Substances, Specified Substances
Soil Contamination Control Lav	vDesignated Hazardous Substances

Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(2023.4.1-)

Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(2023.4.1-)
Dichloromethane	-	Applicable	Applicable
75-09-2 (99.5)			
Methanol	-	Applicable	-
67-56-1 (0.2 - 0.5)			

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