



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 26-Feb-2024 Revision Number 5.07

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Dichloromethane 300	
Product Code	133-08841,139-08843	
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	
Classification of the substance or mixture	
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 1A
Reproductive Toxicity	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, respiratory system, 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,
- respiratory system, 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

CH2Cl2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Dichloromethane	95.5	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
1 0 0	

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 hand-

and 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

Protective mask chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

Skin and body protection 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	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 Orthon measuride (CO2) Uslides

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 information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Districtionario			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 vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- 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.

Skin irritation/corrosion

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

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Dichloromethane	Reasonably	Group 2A	A3	Group 2A
75-09-2	Anticipated			
Reproductive toxicity				
Chemical Name		Reproducti	ve toxicity source in	nformation
Dichloromethane		Based on the NITE GH	IS classification resul	ts.

Methanol	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Dichloromethane	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.
STOT-repeated exposure	· · · · · · · · · · · · · · · · · · ·
Chemical Name	STOT -repeated exposure- source information
Dichloromethane	Based on the NITE GHS classification results.
Methanol Based on the NITE GHS classification results.	
Aspiration hazard	·
Chemical Name	Aspiration Hazard source information
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	
	aquatic environment source information	aquatic environment source information
Dichloromethane	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.
Methanol	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 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	UN1593
Proper shipping name:	Dichloromethane
UN classfication	6.1
Subsidiary hazard class	
Packing group	
Marine pollutant	Not applicable
IMDG	
UN number	UN1593
Proper shipping name:	Dichloromethane

UN classfication	6.1
Subsidiary hazard class	
Packing group	 Net emplicable
Marine pollutant (Sea)	Not applicable No information available
Transport in bulk according to Annex II of MARPOL 73/78 and	
the IBC Code	
TA	
UN number	UN1593
Proper shipping name:	Dichloromethane
UN classfication	6.1
Subsidiary hazard class	
Packing group	
Environmentally Hazardous	Not applicable
Substance	
50	ction 15: REGULATORY INFORMATION
36	
panese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	t 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~)	[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
Act on the Evaluation of	Priority Assessment Chemical Substances (Law Article 2, Para.5)
Chemical Substances and	Thomy Assessment Orientical Substances (Law Article 2, 1 ara.)
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
 Class 1

 (2023.4.1-)
 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

 Priority Chemical Substances, Specified Substances

Soil Contamination Control LawDesignated Hazardous Substances

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances	Register Law
		(Law Art.57-2)	(2023.4.1-)
Dichloromethane	-	Applicable	Applicable
75-09-2 (95.5)			
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	The following contents were revised. Regulatory information.

Record of SDS revisions 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