



# 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	Mildform® 10N
Product Code	133-10311,131-10317
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741
Emergency telephone number Recommended uses Restrictions on use	Fax: +81-6-6203-2029 +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) Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive Toxicity Specific target organ toxicity (single exposure) Category 1 nervous system, respiratory system Specific target organ toxicity (repeated exposure) Category 1 central nervous system, respiratory system Acute aquatic toxicity

Category 4 Category 1 Category 2 Category 1A Category 1B Category 1 Category 1

Category 3

Pictograms



Danger

#### Hazard statements

H332 - Harmful if inhaled

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H341 Suspected of causing genetic defects
- H350 May cause cancer
- H360 May damage fertility or the unborn child
- H317 May cause an allergic skin reaction

H402 - Harmful to aquatic life

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

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

#### **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
- · In case of inadequate ventilation wear respiratory protection
- · Contaminated work clothing should not be allowed out of the workplace
- · Wear protective gloves
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- · 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 ON SKIN: Wash with plenty of soap and water
- · If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- · If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

#### 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

Mixture Single Substance or Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Water	<95	18.02	-	N/A	7732-18-5
Formaldehyde	4.30	30.03	(2)-482	*	50-00-0
Methanol	1	32.04	(2)-201	*	67-56-1
* in the table means approximately approxima					

Note on ISHL No.:

in the table means announced chemical substances.

#### Substances Remarks:

The composition considered to be hazardous are listed in the above. The remaining

ingredients are not hazardous substances, or exist at below reportable level.

# 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.

#### 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 acidic and alkaline substances. 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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Storage

### Safe storage conditions

Storage conditions	Store away from sunlight in well-ventilated place at room temperature (preferably cool).
-	Keep container tightly closed. Store locked up.
Safe packaging material	Polyethylene
Incompatible substances	Strong oxidizing agents, Strong bases, Strong acids

# 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

Formaldehyde 50-00-0	Ceiling: 0.2 ppm Ceiling: 0.24 mg/m <sup>3</sup> TWA: 0.1 ppm OEL TWA: 0.12 mg/m <sup>3</sup> OEL ISHL/ACL: 0.1 ppm	ISHL/ACL: 0.1 ppm	STEL: 0.3 ppm TWA: 0.1 ppm
Methanol 67-56-1	TWA: 200 ppm OEL TWA: 260 mg/m³ OEL Skin ISHL/ACL: 200 ppm	200ppm	TWA 200ppm(260mg/m <sup>3</sup> ) STEL 250ppm

#### 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

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	Pungent odor
Melting point/freezing point	no data available
Boiling point, initial boiling point and boiling range	100 °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:	no data available
Decomposition temperature:	no data available
рН	7.0 - 7.5 (25°C)
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	water and Ethanol : Very soluble.
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	no data available
Vapour density	no data available
Particle characteristics	no data available

# Section 10: STABILITY AND REACTIVITY

### Stability

Reactivityno data availableChemical stabilityMay be altered by light.Hazardous reactionsNone under normal processingConditions to avoidExtremes of temperature and direct sunlight

#### Incompatible materials

Strong oxidizing agents, Strong bases, Strong acids

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

# Section 11: TOXICOLOGICAL INFORMATION

#### Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Formaldehyde	600 - 800 mg/kg(Rat)	270 mg/kg (Rabbit)	0.578 mg/L (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
Formaldehyde	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 vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Formaldehyde	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
Formaldehyde	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
Formaldehyde	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
Formaldehyde	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
Formaldehyde	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.
Carcinogenicity	·
Chemical Name	Carcinogenicity source information
Formaldehyde	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Formaldehyde	Known	Group 1	A1	Group 2A
50-00-0				
Reproductive toxicity				
Chemical Name		Reproducti	ve toxicity source in	nformation
Formaldehyde		Based on the NITE GHS classification results.		
Methanol		Based on the NITE GHS classification results.		
STOT-single exposure				
Chemical Name		STOT -single	exposure- source	information
Formaldehyde		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
Formaldehyde	Based on the NITE GHS classification results.
Methanol	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Formaldehyde	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
Formaldehyde	N/A	LC50:Pimephales promelas	LC50 : Cypridopsis sp.
		22.6 - 25.7 mg/L 96 h	0.00094 mg/L 24 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 aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
· · · <b>,</b> · · ·		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 Degree of decomposition: 91 % by BOD (METI Existing chemical safety inspections) 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	Not regulated -
Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant (Sea) Transport in bulk according to	Not regulated - Not applicable No information available

Annex II of MARPOL 73/78 and the IBC Code		
NTA UN number Proper shipping name: UN classfication	Not regulated - Not applicable	
Subsidiary hazard class Packing group Environmentally Hazardous Substance		
Se	ction 15: REGULATORY INFORMATION	
nonco regulationo		
apanese regulations Fire Service Act	Firefighting Inhibitor	
Poisonous and Deleterious	Deleterious Substances 3rd. Grade	
Substances Control Law		
	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	
	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	Thoney Assessment Onemical Substances (Law Antole 2, Tara.s)	
Regulation of Their		
Manufacture, etc		
Regulations for the carriage	Not applicable	
and storage of dangerous		
goods in ship		
Civil Aeronautics Law	Not applicable	
Marine Pollution Prevention	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y	
Pollutant Release and Transfer	Specified Class 1 No	
Register Law		
(2023.4.1-)		
Specified Class 1-No.	411	
Water Pollution Control Act	Specified substances (Law Art 2 Para 4, Enforcement Order Art 3-3)	

Water Pollution Control Act<br/>Export Trade Control OrderSpecified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)<br/>Not applicable<br/>Specified Substances, Priority Chemical Substances

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-)
Formaldehyde 50-00-0(4.30)	Applicable	Applicable	Applicable
Methanol 67-56-1(1)	-	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