



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 28-Feb-2024 Revision Number 3.05

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Methyl Demeton Standard
Product Code	134-15601
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	+81-6-6203-3741 / +81-3-3270-8571 For research use only
Restrictions on use	Reference material (as defined in Japanese Industrial Standards (JIS) Q0030) 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> Flammable liquids Acute toxicity - Oral Acute toxicity - Dermal Acute toxicity - Inhalation (Dusts/Mists) Serious eye damage/eye irritation Skin sensitization Germ cell mutagenicity Reproductive Toxicity Specific target organ toxicity (single exposure) Category 1 nervous system Specific target organ toxicity (repeated exposure) Category 1 nervous system Acute aquatic toxicity Chronic aquatic toxicity

Category 2 Category 3 Category 2 Category 2A Category 1 Category 2 Category 1 Category 1 Category 1

Category 4

Category 1

#### **Hazard statements**

Signal word

**Pictograms** 

- H227 Combustible liquid
- H319 Causes serious eye irritation
- H300 Fatal if swallowed
- H311 Toxic in contact with skin
- H330 Fatal if inhaled
- H341 Suspected of causing genetic defects
- H361 Suspected of damaging fertility or the unborn child

Danger

H317 - May cause an allergic skin reaction

- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects
- H370 Causes damage to the following organs: nervous system
- H372 Causes damage to the following organs through prolonged or repeated exposure: nervous 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
- · Wash face, hands and any exposed skin thoroughly after handling
- · Do not eat, drink or smoke when using this product
- · Contaminated work clothing should not be allowed out of the workplace
- · Wear protective gloves
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Avoid release to the environment
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

#### **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
- Call a POISON CENTER or doctor/physician if you feel unwell
- · Remove/Take off immediately all contaminated clothing
- · Wash contaminated clothing before reuse
- · If skin irritation or rash occurs: Get medical advice/attention
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth
- In case of fire: Use suitable extinguishing media for extinction
- Collect spillage

### Precautionary statements-(Storage)

- · Store locked up
- · Store in a well-ventilated place. Keep cool

**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

### C6H15O3PS2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Methyl Demeton	98.0	230.29	N/A	2-(7)-165	919-86-8
Note on ISHL No.:	* in the	table means announ	ced chemical substa	inces.	

### 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

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

Highly 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

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### **Storage**

### Safe storage conditions

ouro otorug	e contantionio
Storage	conditions

Incompatible substances

Safe packaging material

Container protected from light, and store tightly closed in freezer (-20°C). Packed with an inert gas. Store locked up. Glass 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
Methyl Demeton 919-86-8	N/A	N/A	TWA: 0.05 mg/m <sup>3</sup> inhalable fraction and vapor Skin

### 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

Form	
Color	nearly colorless - pale yellow
Turbidity	clear
Appearance	liquid
Odor	no data available
Melting point/freezing point	no data available
Boiling point, initial boiling point and boiling range	no data available
Flammability	Combustible liquid
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	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	water, Ethanol, acetone: soluble.
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	1.2
Vapour density	no data available
Particle characteristics	no data available

### Section 10: STABILITY AND REACTIVITY

### Stability

Reactivity Chemical stability no data available 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), Sulfur oxides (SOx), Phosphorus oxide

### Section 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

Addie texieity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl Demeton	30 mg/kg(Rat)	85 mg/kg(Rat)	500 mg/m <sup>3</sup> (Rat) 4 h

#### Skin irritation/corrosion

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

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Methyl Demeton			A4(発がん分類でき	
919-86-8			ない)	

# Reproductive toxicity

STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Methyl Demeton	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Methyl Demeton	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Methyl Demeton	Based on the NITE GHS classification results.

# Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Methyl Demeton	N/A	N/A	LC50 : 190 μg/L 96 h
Other data	no data available		
Persistence and degradability Bioaccumulative potential	No information available No information available		

#### Mobility in soil Hazard to the ozone layer

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	UN3018 Organophosphorus pesticide, liquid, toxic (Methyl Demeton) 6.1 II Yes
IMDG	
UN number	UN3018
Proper shipping name:	Organophosphorus pesticide, liquid, toxic (Methyl Demeton)
UN classfication	6.1
Subsidiary hazard class	
Packing group	
Marine pollutant (Sea)	Yes
Transport in bulk according to Annex II of MARPOL 73/78 and	
the IBC Code	
UN number	UN3018
Proper shipping name:	Organophosphorus pesticide, liquid, toxic (Methyl Demeton)
UN classification	6.1
Subsidiary hazard class	
Packing group	II
<b>Environmentally Hazardous</b>	Yes
Substance	

## Section 15: REGULATORY INFORMATION

<u>Japanese regulations</u> Fire Service Act Poisonous and Deleterious	Category IV, Class III petroleums, dangerous grade 3 Specified Poisonous Substances 1st. Grade
Substances Control Law	
Industrial Safety and Health Act	t Notifiable Substances (Law Art.57-2)
	Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)
Industrial Safety and Health Act ( 2024~)	[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
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	Not applicable
Register Law	
(2023.4.1-)	
Water Pollution Control Act	Protection of Living Environment (Law Art.2, Enforcement Oder Art.3, Ordinace Designating Wastewater Standards Art.1, Attached Table 2)

#### Export Trade Control Order App

Appendix 2 Export Approval Item

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-)
Methyl Demeton 919-86-8 ( 98.0 )	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	The following contents were revised. Regulatory information.

### 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