



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 18-May-2023 Revision Number 1.06

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Metaldehyde Standard	
Product Code	130-18741	
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome	
	Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964	
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 Classification of the substance or mixture Flammable solids Acute toxicity - Oral Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Category 1 nervous system Specific target organ toxicity (repeated exposure) Category 2 nervous system, liver, testes

Category 2 Category 3 Category 2B Category 1

Category 2

Pictograms



Signal word

**Hazard statements** 

- H228 Flammable solid
- H320 Causes eye irritation
- H301 Toxic if swallowed
- H370 Causes damage to the following organs: nervous system
- H373 May cause damage to the following organs through prolonged or repeated exposure: nervous system, liver, testes

### **Precautionary statements-(Prevention)**

- 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
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- · Ground/bond container and receiving equipment

- Use explosion-proof electrical/ ventilating / lighting / equipment
- Wear protective gloves/protective clothing/eye protection/face protection

### 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
- Wash contaminated clothing before reuse
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth
- · In case of fire: Use CO2, dry chemical, or foam for extinction
- 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

Single Substance or Mixture Substance

Formula

C8H16O4

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Metaldehyde Standard	98.0	176.21	(2)-484	*	108-62-3
Note on ISHL No.:	* in the table means announced chemical substances.				

Impurities and/or Additives:

Not applicable

# 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

Sweep up and gather scattered particles, and collect it in an empty airtight container.

## 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 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.

#### Storage

Safe storage conditions

Storage conditions Safe packaging material Incompatible substances Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Packed with an inert gas. Store locked up. Glass Strong oxidizing agents

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

Eye protection

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**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Personal protective equipment Respiratory protection Hand protection

Dust mask (JIS T 8151) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

# Skin and body protection General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

# Form

Color Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas): Upper/lower flammability or ovalosive limits	white crystalline powder - powder no data available no data available Flammable solid no data available no data available
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: practically insoluble, or insoluble.
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

 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)

# Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Metaldehyde Standard	283 mg/kg (Rat)	> 5000 mg/kg (Rat)	314 mg/L (Rat)4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
motalaonyao otaliaala			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
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Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Metaldehyde Standard	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information

Metaldehyde Standard	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Metaldehyde Standard	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	· · ·
Chemical Name	germ cell mutagencity source information
Metaldehyde Standard	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
Mataldabyda Standard	Based on the NITE GHS classification results.
Metaldehyde Standard	
Reproductive toxicity	
	Reproductive toxicity source information
Reproductive toxicity	Reproductive toxicity source information Based on the NITE GHS classification results.
Reproductive toxicity Chemical Name	
Reproductive toxicity Chemical Name Metaldehyde Standard	
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Reproductive toxicity         Chemical Name         Metaldehyde Standard         STOT-single exposure         Chemical Name         Metaldehyde Standard         STOT-repeated exposure	Based on the NITE GHS classification results.           STOT -single exposure- source information           Based on the NITE GHS classification results.
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# Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Metaldehyde Standard	N/A	LC50 : Lepomis macrochirus	N/A
-		149.8 ma/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
··· · · · · · · ·		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 Proper shipping name: UN classfication Subsidiary hazard class UN1332 Metaldehyde 4.1

Packing group Marine pollutant	III Not applicable
IMDG	
UN number	UN1332
Proper shipping name:	Metaldehyde
UN classfication	4.1
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	UN1332
Proper shipping name:	Metaldehyde
UN classfication	4.1
Subsidiary hazard class	
Packing group	111
Environmentally Hazardous	Not applicable
Substance	

# Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed -
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Deleterious Substances 3rd. Grade
Substances Control Law	
Industrial Safety and Health Ac	t Not applicable
Regulations for the carriage	Flammable Solids - Flammable Solids (Ordinance Art.3, Ministry of Transportation
and storage of dangerous	Ordinance Regarding Transport by Ship and Storage, Attached Table 1)
goods in ship	
Civil Aeronautics Law	Flammable Solids (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-)	
Export Trade Control Order	Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (2023.4.1-)
Metaldehyde Standard 108-62-3 ( 98.0 )	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. Prodauct and company Identification. Exposure controls/personal protection. 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