



# **SAFETY DATA SHEET**

According to JIS Z 7253:2019

Revision date 28-Feb-2024

Revision Number 2.04

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

	Veterinary Drug Mixture Standard Solution PL-2-1 (each 20µg/mL Methanol Solution)
Product Code	227-01691,223-01693

Supplier FUJIFILM Wako Pure Chemical Corporation

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**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

Flammable liquids

Acute toxicity - Oral

Serious eye damage/eye irritation

Reproductive Toxicity

Category 2

Category 4

Category 2A

Category 2A

Category 1B

Specific target organ toxicity (single exposure)

Category 1 central nervous system, Visual organ, systemic toxicity

Category 3 Narcotic effects

Specific target organ toxicity (repeated exposure)

Category 1 central nervous system, Visual organ

Category 1

Category 1, Category 3





#### **Hazard statements**

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H360 - May damage fertility or the unborn child

H336 - May cause drowsiness or dizziness

H370 - Causes damage to the following organs: central nervous system, Visual organ, systemic toxicity

H372 - Causes damage to the following organs through prolonged or repeated exposure: central nervous system, Visual 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
- 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
- · Use only outdoors or in a well-ventilated area
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- · Keep container tightly closed
- · Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting / equipment
- · Use only non-sparking tools
- Take precautionary measures against static discharge
- · Keep cool

#### 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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- 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
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- In case of fire: Use suitable extinguishing media for extinction

### Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep container tightly closed
- 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 Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Methanol	99	32.04	(2)-201	*	67-56-1
Sulfadiazine	0.002	250.28	-	N/A	68-35-9
Ormetoprim	0.002	274.32	N/A	8-(2)-997	6981-18-6
2-(Sulfanilamino)thiazole	0.002	255.32	N/A	N/A	72-14-0
Sulfamethoxazole	0.002	253.28	N/A	8-(7)-451,8-(7)-500	723-46-6
Trimethoprim	0.002	290.32	N/A	N/A	738-70-5
Sulfachlorpyridazine	0.002	284.72	(5)-3835	*	80-32-0
Sulfamethoxypyridazine	0.002	280.30	-	N/A	80-35-3
Albendazole-2-aminosulf	0.002	239.29	N/A	N/A	80983-34-2
one					
a-Trenbolone	0.002	N/A	N/A	N/A	N/A-22-0169-21
B-Trenbolone	0.002	270.37	N/A	N/A	10161-33-8
Sulfadimethoxine	0.002	310.33	(9)-766	*	122-11-2
Sulfanitran	0.002	335.34	N/A	N/A	122-16-7
Sulfamonomethoxine	0.002	298.32	-	N/A	1220-83-3
Sulfamerazine	0.002	264.30	(9)-772 , (9)-2252	*	127-79-7
Sulfapyridine	0.002	249.29	N/A	N/A	144-83-2
Thiabendazole	0.002	201.25	(9)-820,(9)-1851	8-(7)-224	148-79-8
Thiamphenicol	0.002	356.22	(9)-816	*	15318-45-3
Levamisole	0.002	240.75	(9)-836	8-(7)-510	16595-80-5
Hydrochloride				8-(7)-546	

Ethopabate	0.002	N/A	N/A	N/A	1959-06-3
Sulfadoxine	0.002	310.33	N/A	N/A	2447-57-6
Zeranol	0.002	322.40	N/A	N/A	26538-44-3
Melengestrol Acetate	0.002	396.52	N/A	N/A	2919-66-6
Sulfadimidine	0.002	278.33	(9)-772	*	57-68-1
Sulfaquinoxaline	0.002	322.32	(9)-2260	*	59-40-5

Note on ISHL No.:

### **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. Vapors may form explosive mixtures with air

#### 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.

<sup>\*</sup> in the table means announced chemical substances.

## **Section 7: HANDLING AND STORAGE**

### **Handling**

#### **Technical measures**

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. To cut with care and wear protective gloves and protective goggles to ampoule time of the opening (Cutting method to check the label). 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

**Storage conditions** Container protected from light, and store tightly closed in freezer (-20°C). Packed with an

inert gas.

Safe packaging material Ampoule

Incompatible substances 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
Methanol	TWA: 200 ppm OEL	200ppm	TWA 200ppm(260mg/m <sup>3</sup> )
67-56-1	TWA: 260 mg/m <sup>3</sup> OEL		STEL 250ppm
	Skin		
	ISHL/ACL: 200 ppm		

Personal protective equipment

**Respiratory protection** gas mask for organic gas ( JIS T 8152 ) **Hand protection** gas mask for organic gas ( JIS T 8152 )
chemical protective gloves ( JIS T 8116 )

**Eye protection** protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection 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** 

Color nearly colorless - slightly yellow

Turbidity clear Appearance liquid

**Odor** characteristic odor

Melting point/freezing point -98 °C

Boiling point, initial boiling point and boiling range 65 °C

Flammability Highly flammable liquid and vapor

**Evaporation rate:**no data available
Flammability (solid, gas):
no data available

Upper/lower flammability or explosive limits

Upper: 36.5%Lower: 6.0%Flash point  $11\ ^{\circ}\text{C}$ Auto-ignition temperature:  $464\ ^{\circ}\text{C}$ 

Decomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

Solubilities water, Ethanol, ether: miscible.

n-Octanol/water partition coefficient:(log Pow) -0.82,

Vapour pressure no data available

Specific Gravity / Relative density 0.793

Vapour densityno data availableParticle characteristicsno 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
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
Motification			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
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
	Methanol	Based on the NITE GHS classification results.
- 7	<b>.</b>	<del>.</del>

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information	
Methanol	Based on the NITE GHS classification results.	
Despiratory or chin consistration		

Respiratory or skin sensitization

Chemical Name Respiratory or Skin sensitization source information

Methanol	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity		
Chemical Name	germ cell mutagencity source information	
Methanol	Based on the NITE GHS classification results.	
Carcinogenicity		
Chemical Name	Carcinogenicity source information	
Methanol	Based on the NITE GHS classification results.	

Reproductive toxicity

Chemical Name		Reproductive toxicity source information	
	Methanol	Based on the NITE GHS classification results.	

**STOT-single exposure** 

Chemical Name	STOT -single exposure- source information	
Methanol	Based on the NITE GHS classification results.	
CTOT reported expressive		

STOT-repeated exposure

Chemical Name		STOT -repeated exposure- source information	
	Methanol	Based on the NITE GHS classification results.	

**Aspiration hazard** 

Chemical Name	Aspiration Hazard source information	
Methanol	Based on the NITE GHS classification results.	

## **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information available

Chemical Name	Algae/aquatic plants	Fish	Crustacea
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	
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

## **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 UN1230
Proper shipping name: Methanol
UN classfication 3
Subsidiary hazard class 6.1
Packing group II

Marine pollutant Not applicable

**IMDG** 

UN number UN1230
Proper shipping name: Methanol
UN classfication 3
Subsidiary hazard class 6.1
Packing group II

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN1230
Proper shipping name: Methanol
UN classfication 3
Subsidiary hazard class 6.1
Packing group II

Environmentally Hazardous Not applicable

**Substance** 

## **Section 15: REGULATORY INFORMATION**

Japanese regulations

Fire Service Act Category IV, alcohols, dangerous grade 2 water-soluble

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)

Class 2 Organic Solvents (Enforcement Order Attached Table No.6-2, Ordinance on

Prevention of Organic Solvent Poisoning Art.1, Para.1, Item 5)

Priority Assessment Chemical Substances (Law Article 2, Para.5)

Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2,

Para.1)

Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Item 4)
[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Industrial Safety and Health Act ( 2024~)

Act on the Evaluation of Chemical Substances and

Regulation of Their

Manufacture, etc

Regulations for the carriage and storage of dangerous

goods in ship

Civil Aeronautics Law

e of dangerous Transport by Ship and Storage, Attached Table 1)

Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of

Explosives etc., Attached Table 1)
Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y

Marine Pollution Prevention

Law

Pollutant Release and Transfer Not applicable

Register Law

(2023.4.1-)

Export Trade Control Order Not applicable
Air Pollution Control Law Specified 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-)
Methanol 67-56-1 ( 99 )	•	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**