



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 09-Feb-2023 Revision Number 2.02

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Multielement Standard Solution W-VI
Product Code	139-14551

Manufacturer FUJIFILM Wako Pure Chemical Corporation

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**Supplier** FUJIFILM Wako Pure Chemical Corporation

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**Emergency telephone number** 

+81-6-6203-3741 / +81-3-3270-8571 For research use only

Recommended uses and restrictions on use

# **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification Classification of the substance or mixture Serious eye damage/eye irritation

Category 2A

#### **Pictograms**



Warning Signal word

#### **Hazard statements**

H319 - Causes serious eye irritation

# **Precautionary statements-(Prevention)**

- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

#### Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
- If eye irritation persists: Get medical advice/attention

### **Precautionary statements-(Storage)**

Not applicable

#### Precautionary statements-(Disposal)

Not applicable

**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
Water	99.25	18.02	N/A	N/A	7732-18-5
Nitric Acid	0.63	63.01	(1)-394	*	7697-37-2
Aluminium	0.01	26.982	-	N/A	7429-90-5
Iron	0.01	55.845	-	N/A	7439-89-6
Lead	0.01	207.2	-	N/A	7439-92-1
Magnesium	0.01	24.305	-	N/A	7439-95-4
Manganese	0.01	54.938	-	N/A	7439-96-5
Sodium	0.01	22.990	-	N/A	7440-23-5
Boron	0.01	10.81	-	N/A	7440-42-8
Cadmium	0.01	112.414	-	N/A	7440-43-9
Chromium	0.01	51.996	-	N/A	7440-47-3
Copper	0.01	63.546	-	N/A	7440-50-8
Zinc	0.01	65.38	-	N/A	7440-66-6
Calcium	0.01	40.07	-	N/A	7440-70-2

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

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 alkaline substances. Avoid contact with metal. 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.

Safe packaging material Polyethylene

Incompatible substances alkaline substances, Metals

#### 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
Nitric Acid	2ppm, 5.2mg/m <sup>3</sup>	N/A	STEL: 4 ppm
7697-37-2			TWA: 2 ppm

Personal protective equipment

Respiratory protection Protective mask Hand protection Protection gloves

**Eye protection** protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form** 

Colorpale blueTurbidityclearAppearanceliquid

Odor no data available
Melting point/freezing point no data available
Boiling point, initial boiling point and boiling range no data available

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

Upper/lower flammability or

explosive limits

Upper:
Lower:
no data available
no data available
Flash point
no data available
Auto-ignition temperature:
no data available
no data available
no data available
acidic

pH acidic
Viscosity (coefficient of viscosity) no data available

Dynamic viscosityno data availableSolubilitiesNo data availablen-Octanol/water partition coefficient:(log Pow)no data availableVapour pressureno data available

Specific Gravity / Relative densityno data availableVapour densityno data availableParticle characteristicsno data available

# **Section 10: STABILITY AND REACTIVITY**

### Stability

Reactivity no data available

**Chemical stability** Stable under recommended storage conditions.

**Hazardous reactions** 

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

alkaline substances, Metals

**Hazardous decomposition products** 

Nitrogen oxides (NOx), Metal oxides, Boron oxide

# **Section 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity** 

reduction to Alleria			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nitric Acid	N/A	N/A	334 ppm ( Rat ) 0.5 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Nitric Acid	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
Nitric Acid	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
Nitric Acid	Based on the NITE GHS classification results.
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Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information	
Nitric Acid	Based on the NITE GHS classification results.	

Respiratory or skin sensitization

Chemical Name		Respiratory or Skin sensitization source information	
	Nitric Acid	Based on the NITE GHS classification results.	

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information	
Nitric Acid	Based on the NITE GHS classification results.	

Carcinogenicity

Chemical Name	Carcinogenicity source information	
Nitric Acid	Based on the NITE GHS classification results.	

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Nitric Acid	-	Group 1	-	-
7697-37-2		Group 2A		

Reproductive toxicity

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

**STOT-single exposure** 

Chemical Name	STOT -single exposure- source information	
Nitric Acid	Based on the NITE GHS classification results.	

STOT-repeated exposure

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

**Aspiration hazard** 

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

# **Section 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Nitric Acid	N/A	LC50 : Gambusia affinis	N/A
		72 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
Nitric Acid	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

Mobility

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 Not regulated

**UN** number Proper shipping name:

**UN classfication** Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** Not regulated

**UN** number

Proper shipping name: **UN classfication** Subsidiary hazard class Packing group

Marine pollutant (Sea) Not applicable

No information available Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** Not regulated

**UN** number

Proper shipping name: **UN classfication** Subsidiary hazard class

Packing group

**Environmentally Hazardous** 

**Substance** 

Not applicable

# **Section 15: REGULATORY INFORMATION**

**International Inventories** 

**EINECS/ELINCS TSCA** 

Japanese regulations

Fire Service Act Not applicable **Poisonous and Deleterious** Not applicable

**Substances Control Law** 

Industrial Safety and Health Act Not applicable 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 Not applicable

**Register Law** (~2023.3.31)

Pollutant Release and Transfer

Register Law (2023/4/1~)

**Water Pollution Control Act** Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating Wastewater Standards Art.1) Specified substances(Law Art.2 Para.4, Enforcement

Not applicable

Order Art.3-3) **Export Trade Control Order** Not applicable

**Air Pollution Control Law** 

**Soil Contamination Control** Law

Hazardous Air Pollutants

Designated Hazardous Substances

### **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

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#### **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 Z7252(2019). \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**