



SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 15-Dec-2023 Revision Number 1

Category 2A

Category 2

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	MassivEV TM Purification Buffer Set		
Product Code	295-96601		
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	+81-6-6203-3741 / +81-3-3270-8571		
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 <u>Classification of the substance or mixture</u> Serious eye damage/eye irritation Specific target organ toxicity (repeated exposure) <u>Category 2</u> blood system

Pictograms



Warning

Hazard statements

H319 - Causes serious eye irritation

H373 - May cause damage to the following organs through prolonged or repeated exposure: blood system

Precautionary statements-(Prevention)

- Wash face, hands and any exposed skin thoroughly after handling
- · Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary statements-(Response)

- · Get medical advice/attention if you feel unwell
- 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
- Precautionary statements-(Storage)
 - Not applicable

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

Kit (Set of mixtures)

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Washing Buffer (10x)	-	N/A	N/A	N/A	N/A-29-9661
EV Elution Buffer (10x)	-	N/A	N/A	N/A	N/A-29-9662
EV Storage Buffer (10x)	-	N/A	N/A	N/A	N/A-29-9663
EV Binding Enhancer (100×)	-	N/A	N/A	N/A	N/A-29-9664
EV-Stabilizer A (for elution/gel filtration)	-	N/A	N/A	N/A	N/A-29-9665
EV-Stabilizer B (for elution/ultrafiltration)	-	N/A	N/A	N/A	N/A-29-9666

Note on ISHL No.:

* in the table means announced chemical substances.

Impurities and/or Additives: Substances Remarks:

This Product includes the following componets. Ethylenediaminetetraacetic Acid, Disodium Salt Dihydrate <4 %, Calcium chloride dihydrate <3 %

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.

Not applicable

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

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.

<u>Storage</u>

Safe storage conditions Storage conditions Safe packaging material Incompatible substances

Store away from sunlight in cold (-20°C). Keep container tightly closed. No information available No information available

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

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	Protective mask
Hand protection	chemical protective gloves (JIS T 8116)
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 Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate:

Kit (Set of mixtures) no data available no data available no data available no data available no data available

Flammability (solid, gas): Upper/lower flammability or explosive limits	no data available
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	No data available
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
 Stable under recommended storage conditions.

 Hazardous reactions
 Stable under recommended storage conditions.

 None under normal processing
 Conditions to avoid

 Extremes of temperature and direct sunlight
 Incompatible materials

 No information available
 Hazardous decomposition products

 Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available

no data available no data available no data available no data available no data available

no data available no data available no data available no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data

no data available

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 Packing group	Not regulated -
Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutent (See)	Not regulated
Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class	Not regulated -
Packing group Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	Not applicable
Act on the Evaluation of	Priority Assessment Chemical Substances (Law Article 2, Para.5)
Chemical Substances and	
Regulation of Their	
Manufacture, etc	
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Class 1
Register Law	

(2023.4.1-)				
Class 1 - No.	595			
Export Trade Control C	Order Not applicable			
	Pollution Release	and Transfer Reg	jistry (~2023.3.31)	
Class	Chemical Name in Regulation	(Metal Name)	Control number	Content Rate
Class 1	Ethylenediaminetetraacetic acid and its potassium and sodium salts		595	<4.0 %
	Section 16:		ORMATION	
Key literature references a sources for data etc.	http://www.safe. IATA dangerous RTECS:Registry Japan Industrial Dictionary of Syr	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.		

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.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

etc

End of Safety Data Sheet