



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 28-Feb-2024 Revision Number 2.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	WIDE	-VIEW TM Prest	ained Protein Si	ze Marker III	
Product Code	230-0	230-02461,236-02463,234-02464			
Supplier Emergency telephone n Recommended uses Restrictions on use	1-2 Dos Phone: Fax: +8 umber +81-6-6 For rese	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 +81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.			
	Section		IDENTIFICATI	ON	
	Section	I Z. HAZARDO			
GHS classification <u>Classification of the sub</u> Serious eye damage/eye		_		Category 2B	
Pictograms Signal word	Warning	g			
Hazard statements H320 - Causes eye in	itation				
Precautionary statemen • Wash face, hands al Precautionary statemen • IF IN EYES: Rinse of rinsing • If eye irritation persis Precautionary statemen • Not applicable Precautionary statemen	nd any exposed skin t s-(Response) autiously with water sts: Get medical advi t s-(Storage)	for several minutes.	·	ses, if present and e	easy to do. Continue
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	=<50	18.02	-	N/A	7732-18-5
Glycerol	25.0	92.09	(2)-242	*	56-81-5
Úrea	25.0	60.06	(2)-1732	*	57-13-6
Sodium Dodecyl Sulfate	3.0	288.38	(2)-1679,(2)-1675	*	151-21-3

Tris-Phosphate

recombinant protein

2.0

0.48

N/A

N/A

219.13

N/A

N/A

N/A

6992-39-8

N/A-23-0246-6

Note on ISHL No.:

* in the table means announced chemical substances.

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

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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

<u>Storage</u>

Safe storage conditions

Storage conditions	Store away from sunlight in cold (-20°C). Keep container tightly closed.
Safe packaging material	Polypropylene
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
Glycerol	N/A	N/A	TWA 10mg/m 3 (vapor)
56-81-5			

Personal protective equipment

Respiratory protection Hand protection Eye protection Skin and body protection Protective mask chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) 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

E ~	-	-	-	
FO	г	п	п	

FOIII	
Color	Blue
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	no data available
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	No data available
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available

Specific Gravity / Relative density Vapour density Particle characteristics no data available no data available no 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

 None under normal processing
 Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Cordion sto (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx), Phosphorus oxide

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m ³ (Rat) 1 h
Sodium Dodecyl Sulfate	1,200 mg/kg (Rat)	200 mg/kg (Rabbit)	> 3900 mg/m ³ (Rat) 1 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Sodium Dodecyl Sulfate	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	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
			Based on the NITE GHS classification results.

Skin irritation/corrosion

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

Reproductive toxicity

Chemical Name	Reproductive toxicity source information			
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.			
STOT-single exposure				
Chemical Name	STOT -single exposure- source information			
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.			

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.	
Aspiration hazard		
Chemical Name	Aspiration Hazard source information	
Sodium Dodecyl Sulfate	Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Glycerol	N/A	LC50:Oncorhynchus mykiss	EC50:Daphnia magna
		51 - 57 mL/L 96 h	500 mg/L 24 h
Sodium Dodecyl Sulfate	EC50:Desmodesmus	LC50:Oncorhynchus mykiss	LC50 : Acartia tonsa
	subspicatus	4.3 - 8.5 mg/L 96 h	0.12 mg/L 96 h
	53 mg/L 72 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.

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	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	Not regulated
Packing group Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class	Not regulated -
Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
IATA	Not regulated

UN number -Proper shipping name: UN classification Subsidiary hazard class Packing group Environmentally Hazardous Not applicable Substance

Section 15: REGULATORY INFORMATION

Japanese regulations		
Fire Service Act	Not applicable	
Poisonous and Deleterious	Not applicable	
Substances Control Law		
Industrial Safety and Health Act	t Not applicable	
Industrial Safety and Health Act ([2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)	
<u>2024~)</u>		
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	
Marine Pollution Prevention	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z	
Law		
Pollutant Release and Transfer	Class 1	
Register Law		
(2023.4.1-)		
Class 1 - No.	275	
Export Trade Control Order	Not applicable	
-		

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-)
Sodium Dodecyl Sulfate 151-21-3 (3.0)	-	-	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. 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