



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 15-Jan-2024

Revision Number 1.02

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Anti CD81, Monoclonal Antibody (17B1)
Product Code 011-27773

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

Serious eye damage/eye irritation Category 2B

**Pictograms** 

Signal word Warning

**Hazard statements** 

H320 - Causes eye irritation

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

· Wash face, hands and any exposed skin thoroughly after handling

# Precautionary statements-(Response)

- 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)

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
Glycerol	50 w/v%	92.09	2-242	*	56-81-5
Water	50	18.02	N/A	N/A	7732-18-5
Sodium Chloride	0.8 w/v%	58.44	(1)-236	*	7647-14-5
2-Amino-2-hydroxymeth yl-1,3-propanediol	0.3 w/v%	121.14	(2)-318	*	77-86-1
Anti CD81, Monoclonal Antibody (17B1)	0.11 w/v%	N/A	N/A	N/A	N/A-01-2777-1

Sodium azide	0.05 w/v%	65.01	(1)-482	*	26628-22-8
Potassium Chloride	0.02 w/v%	74.55	(1)-228	*	7447-40-7

Note on ISHL No.: \* in the table means announced chemical substances.

Impurities and/or Additives: Sodium Azide 0.05w/v%

Source Clone No. 17B1

# **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.

#### Indestion

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

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

#### <u>Handling</u>

#### **Technical measures**

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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

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			
Sodium azide	N/A	N/A	Ceiling: 0.29 mg/m <sup>3</sup> Sodium
26628-22-8			azide
			Ceiling: 0.11 ppm Hydrazoic
			acid vapor

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 liquid

Odor

Melting point/freezing point

Boiling point, initial boiling point and boiling range
Flammability

Evaporation rate:

Flammability (solid, gas):

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

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
Auto-ignition temperature:
no data available
no data available
no data available

no data available pН 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

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

**Hazardous decomposition products** 

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

# 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/m³ (Rat) 1 h
Sodium azide	45 mg/kg ( Rat )	20 mg/kg (Rabbit)	N/A

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

Chemical NameSerious eye damage/irritation source informationSodium azideBased on the NITE GHS classification results.

Respiratory or skin sensitization

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

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information	
Sodium azide	Based on the NITE GHS classification results.	
<u> </u>		

Carcinogenicity

	Chemical Name	Carcinogenicity source information
	Sodium azide	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
Sodium azide	Based on the NITE GHS classification results.	
STOT single synastyre		

STOT-single exposure

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

STOT-repeated exposure

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

**Aspiration hazard** 

Chemical Name	Aspiration Hazard source information	
Sodium azide	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 azide	ErC50 : Pseudokirchneriella subcapitata 348 μg/L 96 h	N/A	N/A

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the		
	aquatic environment source information aquatic environment source information			
Sodium azide	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 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

Transport in bulk according to No information available

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 Not applicable

**Substance** 

# Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Substances Control Law
Not applicable
Not applicable

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 Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

**Export Trade Control Order** Not 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.

Composition/information on ingredients. Fire fighting measures. Exposure controls/personal protection. Toxicological information. Ecological information.

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**