

# Safety Data Sheet

This safety data sheet was created pursuant to the requirements of: The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Issuing date: 10-Apr-2022 Revision Date: 10- Apr-2022 Version: 1

1. IDENTIFICATION

Product identifier

Product Name PD1 / CD279, monoclonal antibody

Other means of identification

Catalog NO IRM005

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use

Recommended use For research use only. Not for use in diagnostic procedures

Supplier's details

Manufacturer <u>iReal Biotechnology, Inc.</u>

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#### 2. HAZARDS IDENTIFICATION

## Classification of the substance or mixture

Skin sensitization Category 1A

# GHS Label elements, including precautionary statements



Signal word

Warning

#### **Hazard statements**

May cause an allergic skin reaction

#### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves/protective clothing/eye protection/face protection

Skin

IF ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other hazards which do not result in classification

No information available

General Hazards No information available

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable

## Mixture

Chemical Name	CAS-No	Weight %
Glycerol (glycerin, glycerine)	56-81-5	20 - <50
Tris	77-86-1	1
BSA	9048-46-8	1
CMIT/MIT 3:1	55965-84-9	0.025 - <0.05

#### 4. FIRST AID MEASURES

## Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air and keep at rest in a position comfortable for breathing.

Skin contact Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. May cause an allergic skin reaction. If

symptoms persist, call a physician.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any

contact lenses and continue flushing for at least 15 minutes. Have eyes

examined and tested by medical personnel.

Ingestion Clean mouth with water and afterwards drink plenty of water. Do NOT induce

vomiting.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Itching. Rashes. Hives. The most important known symptoms and effects are

described in the labelling (see section 2) and/or in section 11.

# Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically. May cause sensitization of susceptible persons.

#### 5. FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors In the event of fire and/or explosion do not breathe fumes May cause sensitization by inhalation and skin contact.

# Special protective actions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

#### **6. ACCIDENTAL RELEASE MEASURES**

## Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid contact with the skin and the eyes. For personal protection see section 8.

## **Environmental precautions**

Try to prevent the material from entering drains or water courses. See Section 12 for additional Ecological Information.

# Methods and material for containment and cleaning up

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains.

#### 7. HANDLING AND STORAGE

## Precautions for safe handling

## Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take Of contaminated clothing and wash before reuse.

# Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

## **Exposure guidelines**

Chemical name	China	Japan Society of Occupational Health	OEL	Australia	Taiwan
CMIT/MIT 3:1 55965-84-9	-	-	TWA: 0.1 mg/m <sup>3</sup>	-	-
Glycerol (glycerin, glycerine) 56-81-5	-	-	TWA: 10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	-

No information available

None known

## Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

## Individual protection measures, such as personal protective equipmen

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

Eye/face protection Use suitable eye protection

Skin and body protection Wear suitable protective clothing

Wear suitable gloves. Ensure that the breakthrough time of the glove Hand protection

material is not exceeded. Refer to glove supplier for information on

breakthrough time for specific gloves.

Respiratory protection When workers are facing concentrations above the exposure limit

they must use appropriate certified respirators

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state	Liquid
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aqueous solution Odor No information available **Appearance** Color Odor threshold No information available colorless

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known

Boiling point / boiling range No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available Flash point No data available No data available

Autoignition temperature

Decomposition temperature На

No data available pH (as aqueous solution) No data available

Kinematic viscosity No data available None known Dynamic viscosity No data available None known Water solubility No data available None known Solubility(ies) No data available None known Partition coefficient No data available None known Vapor pressure No data available None known

No data available Relative density **Bulk density** No data available **Liquid Density** No data available

None known Vapor density No data available

Particle characteristic

Particle Size No data available Particle Size Distribution No data available

#### Other information

No information available Oxidizing properties **Explosive properties** No information available

#### 10. STABILITY AND REACTIVITY

Reactivity

**Reactivity** No information available.

Chemical stability

Stability Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

**Incompatible materials** 

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products

None known based on information supplied.

#### 11. TOXICOLOGICAL INFORMATION

## Information on the likely routes of exposure

# **Product Information**

Inhalation Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** May cause sensitization by skin contact. Specific test data for the

substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

(based on components).

**Ingestion** Specific test data for the substance or mixture is not available.

Symptoms Itching. Rashes. Hives.

#### Numerical measures of toxicity

Acute toxicity

Unknown acute toxicity No information available

#### **Component Information**

Chemical Name LD50 Oral		LD50 Dermal	LC50 Inhalation
Glycerol (glycerin, glycerine)	12,600 mg/kg ( Rat )	Rabbit - >10,000 mg/kg	
Tris	5900 mg/kg (Rat)		
CMIT/MIT 3:1	53 mg/kg(Rat)		

## Delayed and immediate effects and also chronic effects from short and long term exposure

Skin corrosion/irritationNo information availableSerious eye damage/irritationNo information available

**Respiratory or skin sensitization**May cause sensitization by skin contact.

Germ cell mutagenicityNo information availableCarcinogenicityNo information availableReproductive toxicityNo information available

STOT - single exposure

STOT - repeated exposure

Aspiration hazard

No information available

No information available

#### 12. ECOLOGICAL INFORMATION

### **Toxicity**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

## Persistence and degradability

No information available.

## Bioaccumulative potential

No information available.

## Mobility

No information available.

#### Other adverse effects

No information available.

#### 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of

waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

#### 14. TRANSPORT INFORMATION

IMDG Not regulated

Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code

No information available

ICAO (air)

Not regulated

Not regulated

Not regulated

Not regulated

Not regulated

Not regulated

**Special precautions for user**Special provisions from the regulations relative to the

specified mode of transport are noted by numeric code. Refer to the regulations for the full text of special provisions.

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

## The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## **International Inventories**

**TSCA** Does not comply DSL/NDSL Does not comply **EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Does not comply KECL Does not comply **PICCS** Does not comply **AICS** Does not comply

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS
CMIT/MIT 3:1	-	Х	-	-	-

Chemical name	ENCS	IECSC	KECL	PICCS	AICS
CMIT/MIT 3:1	X	Х	X	X	-

Legend: X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### **16. OTHER INFORMATION**

Issuing Date 10- Apr-2022 Revision date 10- Apr-2022

Revision Note The symbol (\*) in the margin of this SDS indicates that this line has been revised.

#### Key or legend to abbreviations and acronyms used in the safety data sheet

## Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

# Disclaimer

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, use, processing, storage, transportation, disposal and release 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.