

# SAFETY DATA SHEET

Date: September 21, 2023

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Secondary Antibody Conjugate (Liquid Format)  
**Catalog Number:** See product information sheet  
**Unit Size:** 50 uL, 100 uL, 250 uL, 500 uL  
**Manufacturer/Supplier:** Biotium, Inc.  
46117 Landing Parkway, Fremont, CA 94538, USA  
Phone: 1-510-265-1027, Fax: 1-510-265-1352  
Web: <http://www.biotium.com>

Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use.

## 2. HAZARDS IDENTIFICATION

**GHS classification**

**Signal word** None  
**Health hazards** None  
**Physical hazards** None  
**Hazard statements** None  
**Precautionary statements** None  
**GHS hazard pictogram** None

**WHMIS classification** None**NFPA Rating**

Health hazard: 1  
Fire: 1  
Reactivity Hazard: 0

**Classification according to Regulation (EC) No 1272/2008[CLP]** None**Labeling according to Regulation (EC) No 1272/2008[CLP]**

**Hazard pictogram** None  
**Signal word** None  
**Hazard statements** None  
**Precautionary statements** None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Weight %	Classification
Glycerol	56-81-5	200-289-5	50%	N/A

## 4. FIRST-AID MEASURES

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

## 5. FIREFIGHTING MEASURES

### Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

### Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Avoid breathing vapors, mist, or gas. Remove all sources of ignition.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and materials for containment and cleaning up

Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid inhalation of vapor or mist.

Avoid direct contact with substance.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Store at -20°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Substance Glycerol

CAS no. 56-81-5

Country	Australia	Belgium	Canada - Ontario	Canada - Québec	Finland	France
Limit value, 8hours	10 mg/m <sup>3</sup> (1)	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	20 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Limit value, short term	--	--	--	--	--	--

Country	Germany AGS)	Germany (DFG)	Ireland	New Zealand	Poland	Singapore
Limit value, 8hours	200 mg/m <sup>3</sup> (1)	200 mg/m <sup>3</sup> (1)	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (1)	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Limit value, short term	400 mg/m <sup>3</sup> (1)(2)	400 mg/m <sup>3</sup> (1)(2)	--	--	--	--

Country	South Africa Mining	South Korea	Spain	Switzerland	USA - OSHA	United Kingdom
Limit value, 8hours	10 ppm	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	50 mg/m <sup>3</sup> inhalable aerosol	15 mg/m <sup>3</sup> (1) 5 mg/m <sup>3</sup> (2)	10 mg/m <sup>3</sup>
Limit value, short term	--	--	--	100 mg/m <sup>3</sup> inhalable aerosol	--	--

Australia (1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

Germany (AGS) (1) Inhalable fraction (2) 15 minutes average value

German (DFG) (1) Inhalable fraction (2) 15 minutes average value

New Zealand (1) The value for inhalable dust containing no asbestos and less than 1% free silica.

USA-OSHA (1) Inhalable fraction (2) Respirable fraction

### Personal protective equipment

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Eye protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Secondary Antibody Conjugate (Liquid Format)
Appearance	Liquid
Odor	No data available
Odor threshold	No data available
pH	7.4
Melting point/freezing point	No data available
Boiling point	No data available
Flash point	No data available
Evaporate rate	No data available
Flammability	No data available
Explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Soluble
Partition coefficient:n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

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## 10. STABILITY AND REACTIVITY

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

No data available

#### Conditions to avoid

Heat, flames and sparks.

#### Materials to avoid

No data available

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**
**Oral LD50** Rat - 27,200 mg/kg

**Inhalation LC50** None

**Dermal LD50** Rabbit - > 10,000 mg/kg

**Other information on acute toxicity** No data available

**Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation - 24 h

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: No eye irritation

**Respiratory or skin sensitization** No data available

**Germ cell mutagenicity** No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity** No data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

No data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

**Additional Information**

Repeated dose toxicity - Rat - male - Oral - NOAEL (No observed adverse effect level) - &gt; 1,600 mg/kg

Remarks: (ECHA)

Repeated dose toxicity - Rat - male and female - Inhalation

Remarks: (ECHA)

Repeated dose toxicity - Rabbit - Dermal

RTECS: MA8050000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence

## 12. ECOLOGICAL INFORMATION

**Toxicity**

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 54,000 mg/l - 96 h

 Toxicity to daphnia  
 and other aquatic  
 invertebrates

 Remarks: No data available  
 (glycerine)

Toxicity to algae

 Remarks: No data available  
 (glycerine)

**Persistence and degradability**

Biodegradability aerobic - Exposure time 2 d

	Result: 90 % - Readily biodegradable.
<b>Bioaccumulative potential</b>	No information available
<b>Mobility in soil</b>	No information available
<b>Results of PBT and vPvB assessment</b>	No information available
<b>Other adverse effects</b>	No information available
<b>Additional information</b>	No information available

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**13. DISPOSAL CONSIDERATIONS**

Do not dispose product directly into sewage. Consult local, state, or national regulation for proper disposal.

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**14. TRANSPORT INFORMATION**

<b>IATA, IMDG, DOT (US), TDG</b>	Not dangerous goods during transportation	
<b>UN number</b>	None	
<b>UN proper shipping name</b>	None	
<b>Transport hazard class</b>	None	
<b>Packing group</b>	None	
<b>Environmental hazards</b>	None	
<b>Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code</b>	None	
<b>Special precaution for user</b>	None	

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**15. REGULATION INFORMATION****US Federal Regulations**

US Toxic Substances Control Act (TSCA): Not listed

SARA 302: No chemicals were found.

SARA 313: No chemicals were found.

SARA 311/312: No chemicals were found

**WHMIS Hazard Class** None

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**16. OTHER INFORMATION**

Classification according to Regulation (EC) Nr. 1272/2008  
Refer to section 2 and section 3

Prepared by: Regulatory Department  
Biotium Inc.

Version no. 7

Revision date (Initials) 9/21/23 (JD)

Reason for revision Updated the product name. Update to new document template.

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