

# Safety Data Sheet (SDS)

# **Glycerol**

# I. Product And Company Identification:

Product name:
Product number:
CAS number: None

Manufacturer Supplier: GeneTex Inc

2456 Alton Pkwy, Irvine, CA92606, USA

(1.877.436.3839) Toll-free TEL

949.309.2888 Fax

Or

GeneTex International Corp.

6F.-2, No.89, Dongmei Rd., East Dist. Hsinchu City 30070, Taiwan (R.O.C.)

886.3.6208988 TEL

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www.genetex.com

#### **II. Hazard Identification:**

Classification of The Substance Or Mixture: Glycerol (CAS# 56-81-5) is not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

**Label Elements:** The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards: none Pictogram: none

# **III. Composition/Information on Ingredients:**

This product is composed of antibodies in aqueous buffer solution. According to 29 CFR

1910.1200(d), hazardous ingredients at less than <1% and carcinogens at less than < 0.1%

are considered non-hazardous. Any hazardous or carcinogenic ingredients exceeding these criteria are listed below.

This product may contain the following hazardous ingredients.

**Ingredient CAS# Percent**Glycerol 56-81-5 < 30%

# **IV.** First Aid Measures:

Inhalation: If inhaled, remove to fresh air. If breathing is difficult,

get medical attention.

Ingestion: If swallowed and person is conscious, rinse out mouth

with water. Get medical attention.

Skin Exposure: In case of contact, wash skin with soap and

water

Eye Exposure: In case of contact with eyes, immediately flush

eyes water for at least 15 minutes.

Get medical attention.

# **V.** Fire Fighting Measures:

Flash Point: Data not available.

Autoignition Temperature: Data not available.

Fire Extinguishing Media: Water spray, dry chemical, foam, or

carbon dioxide.

**Firefighting:** Wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

# VI. Accidental Release Measures:

Absorb liquid with an absorbent material. Transfer contaminated absorbent to a chemical waste container for disposal.

## **VII. Handling And Storage:**

Precausions For Safe Handling: Avoid inhalation and contact with eyes and skin. Avoid prolonged or repeated exposure.

Conditions For Safe Storage: Store at –20°C in tightly closed container.

# **VIII. Exposure Controls/Personal:**

Workplace Controls: Maintain adequate ventilation, eye wash and quick-drench facilities in work area.

**Personal Protective Equipment:** 

Respiratory Protection: Respirator

Hand Protection: Chemical resistant gloves and chemical safety

glasses

Eye Protection: Goggles or face shield Skin And Body Protection: Lab coat

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## IX. Physical And Chemical Properties:

Physical State: Colorless liquid.

Odor: Odorless.

Boiling Point: Data not available. Melting Point: Data not available.

Volatile Organic Compound: Data not available. Solubility in water: Readily miscible in water.

# X. Stability and Reactivity:

Stability: Stable.

Hazardous Decomposition: May form carbon dioxide and

carbon monoxide.

Conditions to avoid: Strong oxidizing agents

# **XI. Toxicological Information:**

**Acute Toxicity:** 

LD50 Oral - rat - 12.600 mg/kg

LD50 Dermal - rabbit - > 10.000 mg/kg

**Skin Corrosion/Irritation:** 

Skin - rabbit

Result: Mild skin irritation - 24 h Serious Eye Damage/Eye Irritation:

Eves - rabbit

Result: Mild eye irritation - 24 h

May be toxic if absorbed through skin or ingested.

**Additional Information:** 

RTECS: MA8050000

Prolonged or repeated exposure may cause:, Nausea, Headache,

Vomiting

# XII. Ecological Information:

Data not available.

# **XIII. Disposal Considerations:**

Dispose of in accordance with federal, state and local

environmental regulations.

# **XIV. Transport Information:**

**D.O.T.:** This substance is considered non-hazardous for

transport.

IATA: This substance is considered non-hazardous for air

transport.

# XV. Regulatory Information:

EU Regulation/Classification/Labeling Information: Not

available for this product.

**Chemical Inventory Status:** 

**SARA Listed Component: None.** TSCA Listed Component: None. Canada (WHMIS): DSL No, NDSL No.

#### **XVI. Other Information:**

This compound is sold only for research use by personnel familiar with chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all timesand not rubbing eyes with hands while working in the laboratory.

This solution is sold only in microliter quantities for use in life sciences research. No other use

is intended, and any other use may involve substantive hazards.

The above information is believed to be correct but does not purport to be all inclusive and

shall be used only as a guide for experienced personnel. GeneTex International Corp. shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.

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# **Safety Data Sheet (SDS)**

# **PBS**

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#### **II. Hazard Identification:**

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

#### Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

Pictogram:

none

# III. Composition/Information on Ingredients:

This product is composed of antibodies in aqueous buffer solution.

This product may contain the following ingredients.

Ingredient	CAS#	Percent
Sodium chloride	7647-14-5	0.8%
Sodium phosphate dibasic	7558-79-4	0.178%
Dihydrogen potassium phosphate	7778-77-0	0.023%
Potassium chloride	7447-40-7	0.02%

# **IV.** First Aid Measures:

### Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled:

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

#### In case of skin contact:

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed:

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

Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section II) and/or in section XI Indication of any immediate medical attention and special treatment needed no data available

### V. Fire Fighting Measures:

#### Description of first aid

**Extinguishing media** 

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# Special hazards arising from the substance or mixture

Oxides of phosphorus, Hydrogen chloride gas, Potassium oxides, Sodium oxides

### Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Further information**

No data available



# VI. Accidental Release Measures:

# Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section VIII.

#### **Environmental precautions**

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### Reference to other sections

For disposal see section XIII

#### VII. Handling And Storage:

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

#### Conditions for safe storage, including any incompatibilities

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

#### Specific end use(s)

Apart from the uses mentioned in section I no other specific uses are stipulated

# VIII. Exposure Controls/Personal:

### **Control parameters**

## Components with workplace control parameters

#### **Exposure controls**

# Appropriate engineering controls

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

#### Personal protective equipment

**Eye/face protection** 

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

#### Skin 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection** 

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# IX. Physical And Chemical Properties:

Information on basic physical and chemical properties

- a) Appearance Form: solid
- b) Odour: no data available
- c) Odour Threshold: no data available
- d) pH: 7,2 7,6 at 25 °C
- e) Melting point/freezing point: No data available
- f) Initial boiling point and boiling range: No data available
- g) Flash point: Not applicable
- h) Evaporation rate: no data available
- i) Flammability (solid, gas): no data available



j) Upper/lower flammability or explosive limits: no data available

k) Vapour pressure: no data available

l) Vapour density: no data available

m) Relative density: 1.03 g/cm<sup>3</sup>

n) Water solubility: soluble

o) Partition coefficient n-octanol/water: no data available

p) Auto-ignition temperature: no data available

q) Decomposition temperature: no data available

r) Viscosity: no data available

s) Explosive properties: no data available

t) Oxidizing properties: no data available

Other safety information: no data available

# X. Stability and Reactivity:

Reactivity: no data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: no data available

Conditions to avoid: no data available

Incompatible materials: Strong oxidizing agents, Strong acids

**Hazardous decomposition products:** 

Other decomposition products - no data available

In the event of fire: see section V

#### **XI:** Toxicological Information:

Information on toxicological effects

Acute toxicity: no data available

Skin corrosion/irritation: No data available

Respiratory or skin sensitisation: No data available

Serious eye damage/eye irritation: No data available

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.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data

available

Aspiration hazard: no data available

**Additional Information** 

RTECS: Not available

burning sensation, Cough, wheezing, laryngitis, Shortness of

breath, spasm, inflammation and edema of the larynx, spasm,

inflammation and edema of the bronchi, pneumonitis,

pulmonary edema, Material is extremely destructive to tissue of

the mucous membranes and upper respiratory tract, eyes, and

skin.

# **XII:** Ecological Information:

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very

persistent and very bioaccumulative (vPvB) at levels of 0.1% or

higher.

Other adverse effects:

No data available

#### **XIII: Disposal Considerations:**

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed

disposal company. Dissolve or mix the material with a

combustible solvent and burn in a chemical incinerator equipped

with an afterburner and scrubber

Contaminated packaging: Dispose of as unused product.

# **XIV:** Transport Information:

UN number:

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class (es):

ADR/RID: - IMDG: - IATA: -

Packaging group:

ADR/RID: - IMDG: - IATA: -

Version 2.1 Date 09/08/2019



**Environmental hazards:** 

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user: no data available

# **XV.** Regulatory Information:

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

Safety, health and environmental regulations/legislation specific

for the substance or mixture: no data available

Chemical Safety Assessment: For this product a chemical safety

assessment was not carried out

#### XVI. Other Information:

This compound is sold only for research use by personnel familiar with chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all timesand not rubbing eyes with hands while working in the laboratory.

This solution is sold only in microliter quantities for use in life sciences research. No other use is intended, and any other use may involve substantive hazards.

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