

# Safety Data Sheet (SDS)

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### 1. Identification

A. Product identifier

Product name Phospho-Akt (Ser473) Antibody

Product Code(s) 9271

B. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** For Research Use Only. Not for Use in Diagnostic Procedures.

Uses advised against No information available

C. Supplier's details

Manufacturer Supplier Supplier

Cell Signaling Technology, Inc.Seoulin Bioscience Co., Ltd.Koram Biotech Co., Ltd.3 Trask Lane경기도 성남시 분당구 대왕판교로 700서울시 강남구 선릉로76길 4

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# 2. Hazard(s) identification

### A. Classification of the substance or mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health

#### B. GHS Label elements, including precautionary statements

Signal Word

None

**Hazard Statements** 

None

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

Not applicable

# 3. Composition/information on ingredients

Chemical nature Mixture

General Hazards The product contains no substances which at their given concentration, are considered to

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be hazardous to health.

Chemical name	CAS No	Weight-%	Other information
glycerol	56-81-5	30-60	-

# 4. First-aid measures

**A.** In case of eye contact Rinse thoroughly with plenty of water, also under the eyelids.

B. In case of skin contact Wash skin with soap and water.

C. In case of inhalation Move to fresh air.

D. In case of ingestion Clean mouth with water and afterwards drink plenty of water.

E. Indication of immediate medical attention and special treatment needed, if necessary

**Symptoms** No information available.

# 5. Fire-fighting measures

#### A. Suitable (and unsuitable) extinguishing media

surrounding environment.

Unsuitable Extinguishing Media No information available.

B. Specific hazards arising from the No information available chemical

C. Special Protective Equipment for Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

**Firefighters** Use personal protection equipment.

# 6. Accidental release measures

#### A. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

**B.** Environmental precautions See Section 12 for additional Ecological Information.

# C. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

Prevention of secondary hazardsClean contaminated objects and areas thoroughly observing environmental regulations.

# 7. Handling and storage

#### A. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Wear personal

protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash

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contaminated clothing before re-use.

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

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

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

# 8. Exposure controls/personal protection

#### A. Control Parameters

Occupational exposure limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Chemical name	Korea	ACGIH TLV
glycerol	TWA 10 mg/m <sup>3</sup>	

#### B. Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

**Environmental exposure** 

controls

No information available.

#### C. Personal Protective Equipment

**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.

**Eye protection** Tight sealing safety goggles.

Hand protection Impervious gloves.

**Body protection** Wear suitable protective clothing.

# 9. Physical and chemical properties

### Information on basic physical and chemical properties

A. Appearance Clear

Physical State Liquid Colorless

B. OdorC. Odor ThresholdNo information availableNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

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D. pH
 E. Melting point/freezing point
 F. Initial boiling point and boiling
 7.5
 No information available
 None known
 None known

range

G. Flash point
No information available
None known

J. Upper/lower flammability or explosive limits

Upper flammability limitNo information available.No information available.Lower flammability limitNo information available.No information available.

K. Vapor pressure No information available None known

L. Solubility(ies)

Solubility
No information available.
None known
Solubility in other solvents
No information available
None known
M. Relative vapor density
No information available
None known

n-octanol/water

P. Autoignition Point
 Q. Decomposition temperature
 No information available
 No information available
 None known
 None known

R. Viscosity

ViscosityNo information availableNone knownViscosity, dynamicNo information availableNone knownS. Molecular WeightNo information available

Other information

Explosive properties
Oxidizing properties
No information available
No information available
No information available
No information available
VOC content
No information available
No information available

# 10. Stability and reactivity

#### A. Chemical stability and possibility of hazardous reactions

**Stability** Stable under normal conditions.

Possibility of hazardous

reactions

None under normal processing.

**Explosion Data** 

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

**B.** Conditions to Avoid Extremes of temperature and direct sunlight.

**C.** Incompatible products No information available.

D. Hazardous Decomposition

**Products** 

None known based on information supplied.

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# 11. Toxicological information

### A. Information on the likely routes of exposure

#### **Product Information**

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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Eye contact Avoid contact with eyes.
Skin contact Avoid contact with skin.

**Symptoms** No information available.

#### B. Health hazards information

Numerical measures of toxicity No information available

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h	
Skin corrosion/irritation	No information available.	No information available.		
Serious eye damage/eye irritation	No information available	No information available		
Sensitization	No information available	No information available		
Carcinogenicity	No information available.	No information available.		
Mutagenic effects	No information available	No information available		
Reproductive toxicity	No information available.			
Specific target organ toxicit (STOT) – single exposure	No information available			
Specific target organ toxicit (STOT) – repeated exposure	No information available			
Target Organ Effects	No information available.	No information available.		
Aspiration hazard	No information available.			

# 12. Ecological information

# A. Ecotoxicity

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

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
glycerol	-	LC50 51 - 57 mL/L	-	EC50 500 mg/L (Daphnia
		(Oncorhynchus mykiss)		magna) 24 h
		96 h		

B. Persistence and degradability No information available.

#### C. Bioaccumulative potential

Chemical name	Octanol-Water Partition Coefficient
glycerol	-1.76

**D. Mobility in soil** No information available.

**E.** Other adverse effects No information available.

# 13. Disposal considerations

A. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

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environmental legislation.

B. Disposal considerations

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

# 14. Transport information

A. UN number

B. UN proper shipping name
C. Transport hazard class(es)
D. Packing group
Not regulated
Not regulated
Not regulated
Not regulated
Not regulated

F. Special precautions for user No information available

# 15. Regulatory information

A. Industrial Safety and Health Law Not applicable

Harmful substances subject to control Not applicable

Harmful agents subject to work environment monitoring Not applicable

Harmful agents subject to workers requiring health examination Not applicable

B. Chemicals Control Act not applicable

Chemicals Control Act (CCA) - Accident Precaution Chemicals Not applicable

C. Safety Control of Dangerous

**Substances Act** 

No information available

D. Wastes Management Dispose of waste in accordance with environmental legislation.

E. Other Regulations No information available

International inventories

TSCA 8(b) Contact supplier for inventory compliance status.

DSL/NDSL Contact supplier for inventory compliance status.

EINECS/ELINCS
Contact supplier for inventory compliance status.
Contact supplier for inventory compliance status.
IECSC
Contact supplier for inventory compliance status.
KECL
Contact supplier for inventory compliance status.

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 Commercial Chemical Substances/EU List of Notified Chemical Substances

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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

A. Information source and references

Prepared By No information available.

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C. Revision number and date

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D. Other information .

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

IMDG International Maritime Dangerous Goods (IMDG)

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA: Time weighted average STEL: Short term exposure limit

Ceiling: Maximum limit value: \* Skin designation

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

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New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

### **Disclaimer**

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**End of Safety Data Sheet** 

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