

Safety Data Sheet (SDS)

Issuing Date: 2023-09-25 Version: 1

1. Identification

A. Product identifier

Product name Tyk2 (E9H4T) Rabbit mAb

Product Code(s) 35615

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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080-880-0468

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

Hazard symbols

None

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

be hazardous to health.

Chemical name	CAS No	Weight-%	Other information
glycerol	56-81-5	30-60	-
sodium azide	26628-22-8	<0.02	-

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

Note to physicians Treat symptomatically.

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

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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. Avoid contact with skin, eyes or clothing.

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

Incompatible products Strong oxidizing agents. Strong acids.

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

8. Exposure controls/personal protection

A. Control Parameters

Occupational exposure limits

Chemical name	Korea	ACGIH TLV
glycerol	TWA 10 mg/m ³	
sodium azide	Ceiling: 0.29 mg/m ³	Ceiling: 0.29 mg/m ³ Ceiling: 0.11 ppm

B. Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Environmental exposure

controls

No information available.

C. Personal Protective Equipment

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

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
color 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
 No information available
 None known
 None known

range

G. Flash point
 H. Evaporation rate
 I. Flammability
 No information available
 No information available
 None known
 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 No. Specific Gravity No information available None known No. Partition coefficient: No information available None known

n-octanol/water

P. Autoignition Point
 Q. Decomposition temperature
 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

Softening point

VOC content

Liquid Density

No information available
No information available
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 hazardousNone under normal processing.

reactions

Explosion Data

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

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B. Conditions to Avoid Extremes of temperature and direct sunlight Over a period of time, sodium azide may react

with copper, lead, brass, or solder in plumbing systems to form an accumulation of the

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HIGHLY EXPLOSIVE compounds of lead azide & copper azide.

C. Incompatible products Strong oxidizing agents Strong acids

D. Hazardous Decomposition

Products

Nitrogen oxides (NOx).

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.

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

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

B. Health hazards information

Numerical measures of toxicity

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h
sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit) = 50 mg/kg (Rat)	-

Skin corrosion/irritationNo information available.

Serious eye damage/eye

irritation

No information available

Sensitization No information available

Carcinogenicity No information available.

Mutagenic effects No information available

Reproductive toxicity No information available.

Specific target organ toxicity

(STOT) - single exposure

No information available

Specific target organ toxicity (STOT) – repeated exposure

No information available

Target Organ Effects No information available.

Aspiration hazard No information available.

12. Ecological information

A. Ecotoxicity

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

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Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
glycerol	-	LC50 51 - 57 mL/L (Oncorhynchus mykiss) 96 h	-	EC50 500 mg/L (Daphnia magna) 24 h
sodium azide	EC50 0.35 mg/L (Pseudokirchneriella subcapitata) 96 h	LC50 0.8 mg/L (Oncorhynchus mykiss) 96 h LC50 5.46 mg/L (Pimephales promelas) 96 h LC50 0.7 mg/L (Lepomis macrochirus) 96 h		LC100 1 mg/L (Orconectes rusticus) 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

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
E. Marine Pollutant
Not regulated

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

Not applicable

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

E. Other Regulations Not applicable

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. **ENCS** Contact supplier for inventory compliance status. **IECSC** Contact supplier for inventory compliance status. **KECL PICCS** Contact supplier for inventory compliance status. **AICS** 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

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TWA: Time weighted average STEL: Short term exposure limit

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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)

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

Legend: