Safety Data Sheet (SDS)

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date: 2025-07-01 **Version:** 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) 70668

Product name β3-Tubulin (D71G9) XP® Mouse Chimeric mAb

Contains

Chemical name	Index No.	CAS No.
glycerol (30-60)	Not Listed	56-81-5
sodium azide (<0.02)	011-004-00-7	26628-22-8

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

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

1.3. Details of the supplier of the safety data sheet

Importer
Cell Signaling Technology Europe B.V.
Dellaertweg 9b
2316 WZ Leiden
The Netherlands
TEL: +31 (0)71 7200 200
FAX: +31 (0)71 891 0019

Manufacturer
Cell Signaling Technology, Inc.
3 Trask Lane
Danvers, MA 01923
United States
TEL: +1 978 867 2300
FAX: +1 978 867 2400

For further information, please contact

Website www.cellsignal.com
E-mail Address info@cellsignal.eu

1.4. Emergency telephone number

Emergency telephone - §45 - (EC)1272/2008

CHEMTREC 24 hours a day, 7 days a week, 365 days a year
+1 703 527 3887 (INTERNATIONAL) +1 800 424 9300 (NORTH AMERICA)

Europe **112**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

2.2. Label elements

Signal word
None

Hazard statements
None

Precautionary statements
None

2.3. Other hazards

Other hazards No information available.

PBT & vPvB The product does not contain any substance(s) classified as PBT or vPvB.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature Mixture.

Chemical name	Weight-%	CAS No.	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
glycerol	30-60	56-81-5	200-289-5	No data available	No information available
sodium azide	<0.02	26628-22-8	247-852-1 (011-004-00-7)	Acute Tox. 2 (H300) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH032)	No information available

Full text of H- and EUH-phrases: see section 16 .

Acute Toxicity Estimate
No information available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
glycerol 56-81-5	27200	10010	No data available	No data available	No data available
sodium azide 26628-22-8	27	20	No data available	No data available	No data available

Candidate List of Substances of Very High Concern for Authorization Information
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move to fresh air.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin contact Wash skin with soap and water.

Ingestion Clean mouth with water and afterwards drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

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.

Effects of Exposure No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. For personal protection see section 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. 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 Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

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

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. 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 contaminated clothing before re-use.

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Specific use(s)
Use as a laboratory reagent.

Risk Management Methods (RMM) No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union
sodium azide 26628-22-8	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; pSk

Chemical name	Austria	Belgium	Bulgaria	Croatia
glycerol 56-81-5	-	TWA: 10 mg/m³; mist	-	TWA-GVI: 10 mg/m³;
sodium azide 26628-22-8	TWA-TMW: 0.1 mg/m³; STEL-KZGW: 0.3 mg/m³ (4 X 15 min); Sk	TWA: 0.1 mg/m³; Sd	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; Sk	TWA-GVI: 0.1 mg/m³; STEL-KGVI: 0.3 mg/m³; Sk

Chemical name	Cyprus	Czech Republic	Denmark	Estonia
glycerol 56-81-5	-	TWA: 10 mg/m³; Ceiling: 15 mg/m³;	-	TWA: 10 mg/m³;
sodium azide 26628-22-8	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; pSk	TWA: 0.1 mg/m³; Ceiling: 0.3 mg/m³; pSk	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; pSk	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; Sk S
Chemical name	Finland	France	Germany TRGS	Germany DFG
glycerol 56-81-5	TWA: 20 mg/m³;	TWA-VME: 10 mg/m³; aerosol	TWA-AGW; 200 mg/m³ (exposure factor 2); inhalable fraction	TWA-MAK: 200 mg/m³; ; Peak: 400 mg/m³; inhalable fraction
sodium azide 26628-22-8	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; pSk	TWA-VME: 0.1 mg/m³; STEL-VLCT: 0.3 mg/m³; dSk	TWA-AGW; 0.2 mg/m³ (exposure factor 2);	TWA-MAK: 0.2 mg/m³; ; Peak: 0.4 mg/m³; inhalable fraction
Chemical name	Greece	Hungary	Italy MDLPS	Italy AIDII
glycerol 56-81-5	TWA: 10 mg/m³;	-	-	-
sodium azide 26628-22-8	TWA: 0.1 ppm; TWA: 0.3 mg/m³; STEL: 0.1 ppm; STEL: 0.3 mg/m³;	TWA-AK: 0.1 mg/m³; STEL-CK: 0.3 mg/m³;	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; pSk	Ceiling: 0.29 mg/m³; vapor Ceiling: 0.11 ppm; vapor
Chemical name	Ireland	Latvia	Lithuania	Luxembourg
sodium azide 26628-22-8	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; pSk	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; pSk	TWA-IPRD: 0.1 mg/m³; STEL-TPRD: 0.3 mg/m³; Sk	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; pSk
Chemical name	Malta	Netherlands	Norway	Poland
glycerol 56-81-5	-	-	-	TWA-NDS: 10 mg/m³; inhalable fraction
sodium azide 26628-22-8	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; pSk	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; Sk	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³ (value from the regulation);	TWA-NDS: 0.1 mg/m³; STEL-NDSCh: 0.3 mg/m³; Sk
Chemical name	Portugal	Romania	Slovakia	Slovenia
glycerol 56-81-5	TWA (VLE-MP): 10 mg/m³; mist	-	TWA: 10 mg/m³;	TWA: 200 mg/m³; inhalable fraction STEL: 400 mg/m³; inhalable fraction
sodium azide 26628-22-8	TWA (VLE-MP): 0.1 mg/m³; STEL (VLE-CD): 0.3 mg/m³; Ceiling (VLE-CM): 0.29 mg/m³; Ceiling (VLE-CM): 0.11 ppm; vapor pSk	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; Sk	TWA: 0.1 mg/m³; Ceiling: 0.3 mg/m³;	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; pSk
Chemical name	Spain	Sweden	Switzerland	United Kingdom
glycerol 56-81-5	TWA-(VLA-ED): 10 mg/m³; mist	-	TWA-MAK: 50 mg/m³; inhalable dust STEL-KZGW: 100 mg/m³; inhalable dust	TWA: 10 mg/m³; mist STEL: 30 mg/m³; mist
sodium azide 26628-22-8	TWA-(VLA-ED): 0.1 mg/m³; STEL (VLA-EC): 0.3 mg/m³; pSk	TLV-NGV: 0.1 mg/m³; STEL (Bindande KGV): 0.3 mg/m³;	TWA-MAK: 0.2 mg/m³; inhalable dust STEL-KZGW: 0.4 mg/m³; inhalable dust	TWA: 0.1 mg/m³; STEL: 0.3 mg/m³; pSk

Biological occupational exposure limits This product, as supplied, contains materials that do not have reportable biological exposure limits or are not subject to the reporting requirements of the local jurisdiction.

8.2. Exposure controls

Engineering controls Showers, eyewash stations, and ventilation systems.

Personal Protective Equipment

Eye/face protection Safety glasses with side-shields.

Hand protection Impervious gloves.

Skin and body protection Wear protective gloves and protective clothing.

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

Thermal hazards No information available.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Colorless
Odor	No information available
Odor Threshold	No information available

Property	**Values**	**Remarks • Method**
Melting point/freezing point	No information available	None known
Boiling point or initial boiling point and boiling range	No information available	None known
Flammability	No data available	None known
Lower and upper explosion limit/flammability limit		None known
Lower explosion limit	No data available	
Upper explosion limit	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition Temperature VALUE		None known
SADT (°C)	No data available	None known
pH	7.5	@ 20 °C
pH (as aqueous solution)	No data available	None known
Viscosity	No data available	None known
Viscosity, dynamic	No data available	None known
Solubility	No data available	None known
Water solubility	No data available	None known
Partition coefficient n-octanol/water (log value)	No data available	None known
Vapor pressure	No data available	None known
Density and/or relative density	No data available	None known

Bulk Density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes
No information available

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

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

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

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 HIGHLY EXPLOSIVE compounds of lead azide & copper azide.

10.5. Incompatible materials

Incompatible materials Strong oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

Hazardous Decomposition Products Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists.
Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

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.

Acute toxicity No information available.

Numerical measures of toxicity No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
glycerol	= 27200 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 5.85 mg/L (Rat) 4 h
sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit) = 50 mg/kg (Rat)	0.054 - 0.52 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
glycerol	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	-
sodium azide	EC50 0.35 mg/L (Pseudokirchneriella subcapitata) 96 h	LC50: =0.8mg/L (96h, Oncorhynchus mykiss) LC50: =0.7mg/L (96h, Lepomis macrochirus) LC50: =5.46mg/L (96h, Pimephales promelas)	-	LC100 1 mg/L (Orconectes rusticus) 96 h

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Chemical name	Partition coefficient
glycerol	-1.75

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment Based on available data, the classification criteria are not met.

12.6. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

12.7. Other adverse effects

Other adverse effects No information available.

PMT or vPvM properties Based on available data, the classification criteria are not met.

SECTION 13: Disposal considerations

13.1. Waste treatment 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.

SECTION 14: Transport information

IATA

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special provisions None

IMDG

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special precautions for user None
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special precautions for user None

ADR

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special precautions for user None

ADN

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazard Not applicable
14.6 Special precautions for user
Special provisions None

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical Prohibition Ordinance (ChemVerbotsV)
Not applicable

TRGS 905 Not applicable

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018	Not applicable
Storage of Hazardous Material	Not applicable
WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20	Not applicable
Major Accidents Ordinance SR 814.012	Not applicable

European Union
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:
This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants
Not applicable

Ozone-depleting substances (ODS) Regulation (EU) 2024/590
Not applicable.

Explosives Precursors Marketing and Use (2019/1148)
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
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status
TCSI	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
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
AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment

Chemical Safety Assessment No information available

SECTION 16: Other information

Full text of any hazard and/or precautionary statements referred to under Sections 2-15:
Not applicable

Classification procedure: Expert judgment and weight of evidence determination.
Revision Date: 2025-07-07
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.
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

EU SDS version information - EGHS
UL release:
GHS Revision 7
2025 Q1

Full text of any hazard and/or precautionary statements referred to under Sections 2-15: H228 - Flammable solid H370 - Causes damage to organs if inhaled H370 - Causes damage to organs in contact with skin H372 - Causes damage to organs through prolonged or repeated exposure if inhaled

Chemical name	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)
sodium azide	Acute Tox. 2 (H300) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH032)	