SAFETY DATA SHEET (SDS): According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

# **SECTION 1. Identification**

Product identifier

Product number 5031

Product name Phospho-Jak3 (Tyr980/981) (D44E3) Rabbit mAb

Recommended use of the chemical and restrictions on use

**Identified uses** This product is intended for research purposes only.

**Uses advised against**This product is not intended for use in diagnostic procedures or therapeutics.

This product is not intended for use in humans or animals.

Manufacturer, importer, supplier

Manufacturer address Cell Signaling Technology, Inc.

3 Trask Lane

Danvers, MA 01923 United States

TEL: +1 978 867 2300 FAX: +1 978 867 2400 www.cellsignal.com

Website www.cellsignal.com
Email address support@cellsignal.com

Company phone number 978-867-2300

Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

# SECTION 2. Hazard(s) identification

#### Classification

This substance/mixture is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Label elements, including precautionary statements

Signal Word

None

Hazard statement(s)

None

**Precautionary Statement(s)** 

None

Supplementary Hazard Information

Hazards not otherwise classified (HNOC) None.

# **SECTION 3. Composition/information on ingredients**

### Chemical nature Aqueous buffer solution

Chemical Name	CAS No	Weight %
glycerol	56-81-5	30-60
sodium chloride	7647-14-5	0.1-1
sodium	75277-39-3	0.1-1
4-(2-hydroxyethyl)piperazin-1-ylethanesulphonate		

# **SECTION 4. First-aid measures**

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

rinsing.

**Skin contact**Consult a physician if necessary. Wash off immediately with soap and plenty of water

removing all contaminated clothes and shoes.

**Inhalation** Move to fresh air. Consult a physician. If not breathing, give artificial respiration.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce

vomiting. If swallowed, do not induce vomiting - seek medical advice. Never give anything

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by mouth to an unconscious person.

## Most important symptoms and effects, both acute and delayed

No information available.

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### Advice for emergency responders

General advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in

attendance. Do not breathe dust/fume/gas/mist/vapors/spray.

**Protection of first-aiders** Use personal protective equipment.

# **SECTION 5. Fire-fighting measures**

## Extinguishing media

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

surrounding environment.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

## Specific hazards arising from the chemical

No information available.

# **Explosion Data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# **SECTION 6. Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Ensure adequate ventilation. Other information No information available.

### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

## Methods and material for containment and cleaning up

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

Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover

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powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to

properly labeled containers.

# **SECTION 7. Handling and storage**

### Precautions for safe handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Prevent the formation of vapors, mists and aerosols. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

Technical measures/Storage

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

conditions

children.

Packaging material Incompatible products

No information available. Strong oxidizing agents.

# **SECTION 8. Exposure controls/personal protection**

### Control parameters

Occupational exposure limit values			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
glycerol	-	TWA mist, total particulate: 15 mg/m <sup>3</sup> TWA mist, respirable fraction: 5 mg/m <sup>3</sup>	

### Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

## Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

Eye/face protection Skin and body protection Respiratory protection Tightly fitting safety goggles. Wear protective gloves/clothing.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 9. Physical and chemical properties**

## Information on basic physical and chemical properties

Physical state Liquid Appearance Clear

Odor No information available

Color Colorless

Odor Threshold No information available

pH 7.4 @ 20 °C

Melting point/freezing point

Initial boiling point and boiling

No information available

No information available

range

No information available. Flash point **Evaporation rate** No information available Flammability (solid, gas) No information available **Upper flammability limit** No information available. No information available. Lower flammability limit No information available Vapor pressure No information available Vapor density Relative density No information available No information available. Solubility No information available Solubility in other solvents Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** No information available **Decomposition temperature** No information available. **Explosive properties** No information available **Oxidizing properties** No information available **VOC** content No information available **Viscosity** No information available. No information available. Density

# **SECTION 10. Stability and reactivity**

#### Reactivity

No information available.

## **Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

**Hazardous reactions**Hazardous polymerization
None under normal processing.
None under normal processing.

# **Conditions to Avoid**

No information available.

#### **Incompatible Materials**

Strong oxidizing agents.

# **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors: Acrolein. Hydrogen chloride.

# **SECTION 11. Toxicological information**

### Information on likely routes of exposure

**Inhalation** Mist may be injurious to the kidneys at very high exposure levels. Not an expected route of

exposure.

**Eye contact** Contact with eyes may cause mild irritation.

**Skin contact** No known hazard in contact with skin.

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

## Information on toxicological effects

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxocological and physiological properties of this compound is not well defined.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
glycerol	12600 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	-
sodium chloride	3000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42000 mg/m <sup>3</sup> (Rat) 1 h

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

Symptoms

Serious eye damage/eye

irritation Sensitization

No information available.

Mutagenic effects Carcinogenicity No information available.

No component of this product present at levels greater than or equal to 0.1% is identifiable

No information available.

as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity STOT - single exposure STOT - repeated exposure Target Organ Effects

Neurological effects
Aspiration Hazard
Other information

No information available. No information available. No information available.

Eyes, Respiratory system, Kidney. No information available.

No information available.

glycerol: NOAEL (inhalation: 6 h/d, 5d/week) = 0.167 mg/L (Rat) 13 weeks

Mild / Nonirritant: OECD TG 437 (Bovine Corneal Opacity and Permeability (BCOP)).

glycerol: LOAEL (inhalation: 6 h/d, 5d/week) = 1-4 mg/L (Rat) 2 weeks (Source: IUCLID / Method: Directive 87/302/EEC, part B "Sub-chronic inhalation toxicity

study: 90-day repeated dose study using rodent species")

# **SECTION 12. Ecological information**

### **Ecotoxicity**

Product does not present an aquatic toxicity hazard based on known or supplied information.

Chemical Name	Toxicity to algae	Toxicity to fish	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 chloride	-	LC50 4747 - 7824 mg/L (Oncorhynchus mykiss) 96 h LC50 12946 mg/L (Lepomis macrochirus) 96 h LC50 5560 - 6080 mg/L (Lepomis macrochirus) 96 h LC50 6420 - 6700 mg/L (Pimephales promelas) 96 h LC50 7050 mg/L (Pimephales promelas) 96 h LC50 6020 - 7070 mg/L (Pimephales promelas) 96 h	EC50 340.7 - 469.2 mg/L (Daphnia magna) 48 h EC50 1000 mg/L (Daphnia magna) 48 h

Persistence and degradability

Bioaccumulation Mobility Product is biodegradable.

Not likely to bioaccumulate.

Will likely be mobile in the environment due to its water solubility

Chemical Name	Octanol-Water Partition Coefficient
glycerol	-1.76

#### Other adverse effects

No information available.

# **SECTION 13. Disposal considerations**

# **Waste Disposal Methods**

Dispose of in accordance with all applicable national environmental laws and regulations.

#### Disposal considerations

Do not empty into drains; dispose of this material and its container in a safe way.

# **SECTION 14. Transport information**

This material is not subject to regulation as a hazardous material for shipping.

# **SECTION 15. Regulatory information**

## **North American Inventory Listing**

Chemical Name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
glycerol	Listed	Not Listed	Listed	Not Listed
sodium chloride	Listed	Not Listed	Listed	Not Listed
sodium 4-(2-hydroxyethyl)piperazin-1-yl	Listed	Not Listed	Not Listed	Listed
ethanesulphonate				

# Canadian Workplace Hazardous Materials Information System (WHMIS) Classification

This product does not meet the criteria for classification under the Hazardous Products Act.

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

No
No
No
No
No

# Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

# CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## **U.S. State Right-to-Know Regulations**

This product contains the following U.S. State Right to Know chemicals:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
glycerol	Listed	Listed	Listed

#### U.S. FIFRA Label Information

This product does not contain any substances regulated as pesticides.

## US Commerce Department - Export Administration Regulations Information

This product does not contain any substances regulated under the Chemical Weapons Convention (CWC).

### U.S. Drug Enforcement Administration Information

This product does not contain any substances regulated under the DEA.

## **SECTION 16. Other information**

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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.

**End of Safety Data Sheet**