

Material Safety Data Sheet (MSDS)

SDS #: 9802

Revision Date: 2011-06-08

Version 7.01

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Kinase Buffer (10X)

Pure substance/preparation Substance Preparation

Identified uses For research use only, Not for use in humans.

Manufacturer

Cell Signaling Technology, Inc.

3 Trask Lane Danvers, MA 01923 TEL: 978-867-2300

HAZARDS IDENTIFICATION

Emergency Overview

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

Appearance aqueous solution Physical State liquid Odor No information available

Potential Health Effects

Acute Toxicity

Eyes May cause slight irritation.

Skin No known effect based on information supplied. Inhalation No known effect based on information supplied. No known effect based on information supplied. Ingestion

Chronic Effects

Chronic toxicity No known effect based on information supplied.

Aggravated Medical Conditions None known.

Environmental hazard See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	EC-No
Trisodium orthovanadate	13721-39-6	<0.05	237-287-9

4. FIRST AID MEASURES

In case of contact, immediately flush eyes with plenty of water. Eye contact

Skin contact Wash off immediately with soap and plenty of water.

Inhalation Move to fresh air.

Ingestion Never give anything by mouth to an unconscious person. Clean mouth with water.

5. FIRE-FIGHTING MEASURES

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Flammable Properties
Suitable Extinguishing Media
Protective Equipment and Precautions for Firefighters

Not flammable.

Dry chemical, CO, alcohol-resistant foam or water spray.

As in any fire, wear self-contained breathing apparatus pressure-demand,

MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health Hazard 0 Flammability 0 Stability 0 Physical and chemical hazards -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid contact with skin, eyes and clothing.

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

Methods for cleaning up Prevent product from entering drains.

7. HANDLING AND STORAGE

Advice on safe handling Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Technical measures/Storage conditions Keep container tightly closed. Recommended storage temperature 4 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure GuidelinesThis product does not contain any hazardous materials with occupational exposure limits established

by the region specific regulatory bodies.

Engineering Measures Showers, eyewash stations, and ventilation systems.

Hygiene measures When using, do not eat, drink or smoke Wear suitable gloves and eye/face protection Wash hands

before breaks and at the end of workday Wash hands with water as a precaution Regular cleaning of

equipment, work area and clothing is recommended Avoid breathing vapors, mist or gas

Personal Protective Equipment

Respiratory protection None required under normal usage. If exposure limits are exceeded or irritation is experienced,

NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be

provided in accordance with current local regulations.

Eye/Face Protection Safety glasses with side-shields

Skin and body protection Protective gloves.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State liquid

Appearance aqueous solution

Color colorless
Odor No information available

pH 7.5

Solubility
No information available
Melting point/range
No information available
Boiling Point/Range
No information available

Flash point Not flammable.

Autoignition temperature
Flammability Limits in Air
Explosive properties
VOC Content
Initial Boiling Point
Evaporation Rate
Decomposition Temperature °C
No information available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Conditions to Avoid Strong acids Oxidizing agents

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Caution - substance not yet tested completely

Carcinogenicity There are no known carcinogenic chemicals in this product.

IrritationNo data available.SensitizationNo data availablemutagenic effectsNone known.Reproductive ToxicityNo data availableDevelopmental ToxicityNo data available.Target Organ EffectsNone known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Persistence and degradability No information available.

Bioaccumulation No information available.

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Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

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

14. TRANSPORT INFORMATION

DOT Not regulated

MEX Not regulated

IATA Not regulated

15. REGULATORY INFORMATION

OSHA Regulatory Status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Complies
PICCS -

AICS Complies NZIOC Complies

U.S. Federal Regulations

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

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard 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).

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Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

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.

TSCA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Trisodium orthovanadate		X			

International Regulations

Mexico - Grade No information available.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not Determined

16. OTHER INFORMATION

Revision Date: 2011-06-08

Revision Note No information available.

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text

End of Material Safety Data Sheet