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

Issuing Date: 2014-07-01 **Revision Date: 2014-07-02** Version: 1

SECTION 1. Identification

Product identifier

9993 Product No.

Product name PTMScan® IAP Buffer (10X)

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

Cell Signaling Technology, Inc. Manufacturer address

3 Trask Lane

Danvers, MA 01923 **United States**

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

Email address

Website

This substance/mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity - single exposure (STOT SE)	Category 3

GHS Label elements, including precautionary statements



Signal Word Warning

Hazard statement(s)

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Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

Precautionary Statement(s)

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell Store in a well-ventilated place. Keep container tightly closed

Store locked up

Dispose of contents/container to an approved waste disposal plant

Supplementary Hazard Information

Hazards not otherwise classified (HNOC) None

Unknown Acute Toxicity 24% of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3. Composition/information on ingredients

Chemical nature Aqueous buffer solution

Synonyms MOPS; Morpholinopropane sulfonic acid; 4-nitropyridine;

3-(N-morpholino)propanesulfonate

Chemical Name	CAS No.	Weight %
4-morpholinopropanesulphonic acid	1132-61-2	13-30

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 Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a

physician. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water

removing all contaminated clothes and shoes.

Inhalation Move to fresh air. If symptoms persist, call a physician. Artificial respiration and/or oxygen

may be necessary. Consult a physician. Immediate medical attention is not required. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required.

IngestionDo NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required Rinse mouth. Clean mouth with water. Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person. Consult a physician. If swallowed,

do not induce vomiting - seek medical advice.

Most important symptoms and effects, both acute and delayed

Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Advice for emergency responders

Show this safety data sheet to the doctor in attendance. Immediate medical attention is not required. If symptoms persist, call a physician.

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

SECTION 5. Fire-fighting measures

Extinguishing media

General advice

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

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge

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 Use personal protective equipment, Avoid contact with the skin and the eyes, Evacuate

personnel to safe areas. Keep people away from and upwind of spill/leak.

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. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

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

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Methods for cleaning up

After cleaning, flush away traces with water. Prevent product from entering drains. Dam up.

SECTION 7. Handling and storage

Precautions for safe handling

Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Prevent the formation of vapors, mists and aerosols.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep out of the reach of children. Keep container tightly closed. Keep containers tightly

closed in a cool, well-ventilated place. Keep in properly labeled containers.

Packaging material No information available.

Incompatible products None known based on information supplied.

SECTION 8. Exposure controls/personal protection

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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.

Tightly fitting safety goggles. Face-shield. Eye/face protection

Wear protective gloves/clothing. Skin and body protection

Respiratory protection 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.

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before Hygiene measures

re-use. Provide regular cleaning of equipment, work area and clothing.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid **Appearance** Clear

No information available Odor

Color Colorless

Odor Threshold No information available

7.2 @ 20 °C Ha

Melting point/freezing point No information available Initial boiling point and boiling No information available

range

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

SECTION 10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactionsHazardous polymerization
None under normal processing.
None under normal processing.

Conditions to Avoid

No information available.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

SECTION 11. Toxicological information

Information on likely routes of exposure

InhalationMay cause irritation of respiratory tract.Eye contactContact with eyes may cause irritation.Skin contactContact with skin may cause irritation.IngestionThere is no data available for this product.

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.

Unknown Acute Toxicity 24% of the mixture consists of ingredient(s) of unknown acute toxicity.

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

Symptoms Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing,

reddening and swelling accompanied by a stinging sensation and/or a feeling like that of

fine dust in the eyes. Causes skin irritation.

Skin corrosion/irritation Serious eye damage/eye

age/eye Causes serious eye irritation.

irritation

CorrosivityNo information available.SensitizationNo information available.Mutagenic effectsNo information available.

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

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

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
Respiratory system.
No information available.

Chronic Toxicity Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated

exposure.

Target Organ EffectsRespiratory system, Eyes, Skin.Neurological effectsNo information available.Aspiration HazardNo information available.

SECTION 12. Ecological information

Ecotoxicity

Product does not present an aquatic toxicity hazard based on known or supplied information. 24.5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability Bioaccumulation Mobility No information available. No information available. No information available

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.

SECTOIN 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
4-morpholinopropanesulphonic	Listed	Not Listed	Listed	Not Listed
acid				

Canadian Workplace Hazardous Materials Information System (WHMIS) Classification



Class D2B: Skin/Eye Irritation - Reversible damage

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 HazardYesChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNo

Reactive Hazard

No

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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
sodium hydroxide	Listed	Listed	Listed
disodium hydrogenorthophosphate	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