

# Material Safety Data Sheet (MSDS) for Buffer A (4X)

New 03/08

## I. IDENTIFICATION:

**Product name:** Buffer A (4X)  
**Product Catalog Number:** Component of kit #9002 and #9003  
**CAS number:** None  
**Manufacturer Supplier:** Cell Signaling Technology®  
3 Trask Lane  
Danvers, MA 01923 USA  
1-978-867-2300 TEL  
1-978-867-2400 FAX  
1-978-578-6737 Emergency Phone

## II. COMPOSITION/INFORMATION ON INGREDIENTS:

According to 29 CFR 1910.1200(d), hazardous ingredients at less than <1% and carcinogens at less than < 0.1% therefore considered non-hazardous. Any hazardous or carcinogenic ingredients meeting these criteria are listed below.

Ingredient	CAS#	Percent
Nonidet-40	9036-19-5	4%
Potassium chloride	7447-40-7	1.8%
Dithiothreitol	3483-12-3	<1%
Magnesium chloride	7786-30-3	<1%

## III. HAZARD IDENTIFICATION:

Avoid contact, ingestion, and inhalation. May be harmful if contact with skin or swallowed. Irritating to eyes, respiratory system, skin.  
To the best of our knowledge the chemical, physical, and toxicological properties of this buffer have not been investigated.

**Target organ:** heart.

## IV. FIRST AID MEASURES:

**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention.  
**Ingestion:** If person is conscious, wash out mouth with water. Get medical attention.  
**Skin Exposure:** Wash skin with soap and water. If irritation develops or persists, get medical attention.  
**Eye Exposure:** Immediately flush eyes with water for at least 15 minutes. Get medical attention.

## V. FIRE FIGHTING MEASURES:

**Flash Point:** Not applicable.  
**Autoignition Temperature:** Not applicable.  
**Explosion:** Not applicable.  
**Fire Extinguishing Media:** Water spray, dry chemical, alcohol foam, or carbon dioxide.  
**Firefighting:** Wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

## VI. ACCIDENTAL RELEASE MEASURES:

Wear appropriate personal protective equipment as indicated in Section VIII. Absorb liquid with an absorbent material. Transfer contaminated absorbent to a closed chemical waste container for disposal. Wash spill site after material has been picked up for disposal.

## VII. HANDLING AND STORAGE:

Store at 4°C in tightly closed container.  
Avoid prolonged or repeated exposure. Avoid contact with eyes, respiratory system, skin, and clothing. Wash thoroughly after handling.

## VIII. EXPOSURE CONTROLS/PERSONAL

**Ventilation System:** A system of local and general exhaust is recommended.  
**Skin Protection:** Wear compatible chemical resistant gloves and protective clothing.  
**Eye protection:** Wear chemical safety goggles. Maintain emergency eyewash and shower in work area.

## IX. EXPOSURE CONTROLS/PERSONAL PROTECTION:

**Appearance:** Liquid  
**Odor:** Odorless  
**pH :** Data not available  
**Boiling Point:** Data not available  
**Melting Point:** Data not available  
**Freezing Point:** Data not available  
**Volatile Organic Compounds (VOC):** Data not available  
**Autoignition temp.** Data not available  
**Solubility:** Soluble in water

## X. STABILITY AND REACTIVITY:

**Stability:** Stable.  
**Conditions to avoid:** Data not available.  
**Hazardous Decomposition:** Data not available.  
**Hazardous polymerization:** Will not occur.

## XI. TOXICOLOGICAL INFORMATION:

**Skin Exposure:** May cause skin irritation. May be harmful if absorbed through skin.  
**Eye Exposure:** May cause eye irritation.  
**Inhalation:** May be harmful if inhaled. Material may be irritating to mucous membrane and upper respiratory tract.  
**Ingestion:** May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## XII. ECOLOGICAL INFORMATION:

Data not available.

## XIII. DISPOSAL CONSIDERATIONS:

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

## XIV. TRANSPORT INFORMATION:

**D.O.T.**  
**Proper Shipping Name:** None.  
This substance is considered non-hazardous for transport.

**IATA**  
**Proper Shipping Name:** None.  
This substance is considered non-hazardous for air transport.

## XV. REGULATORY INFORMATION:

**US Regulations/Classifications:** May be harmful if in contact with skin or swallowed. Irritating to eyes, respiratory system, skin.  
In case of contact with eyes, wash thoroughly and seek medical attention.

**SARA Listed:** No.  
**Canada (WHMIS):** DSL No, NDSL No.

## XVI. OTHER INFORMATION:

This product is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.