

# Material Safety Data Sheet (MSDS) for DNA Binding Buffer

New 03/08

## I. IDENTIFICATION:

**Product name:** DNA Binding Buffer  
**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
Guanidinium chloride	50-01-1	25-50%
Propan-2-ol	67-63-0	25-50%

## III. HAZARD IDENTIFICATION:

Harmful. Flammable. Harmful if swallowed. Irritating to eyes, skin.

<b>HMS Rating:</b>	Health: 3	Flammability: 3	Reactivity: 0
<b>NFPA Rating:</b>	Health: 3	Flammability: 3	Reactivity: 0

## 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:** 21-55°C (70-131°F)  
**Autoignition Temperature:** Data not available.  
**Explosion:** Data not available.  
**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 room temperature in tightly closed container. Store away from ignition sources.

## 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.

### Components with limit values that require monitoring at the workplace:

**CAS# 67-63-0: propan-2-ol:**

<b>PEL:</b>	980 mg/m <sup>3</sup> , 400 ppm
<b>REL:</b>	Short term value 1225 mg/m <sup>3</sup> , 500 ppm Long term value: 980 mg/m <sup>3</sup> , 400 ppm
<b>TLV:</b>	Short term value: 984 mg/m <sup>3</sup> , 400 ppm Long term value: 492 mg/m <sup>3</sup> , 200 ppm

## IX. EXPOSURE CONTROLS/PERSONAL PROTECTION:

<b>Appearance:</b>	Liquid
<b>Odor:</b>	Characteristic
<b>pH at 20°C (68°F):</b>	7.0
<b>Boiling Point:</b>	Data not available
<b>Melting Point:</b>	Data not available
<b>Freezing Point:</b>	Data not available
<b>Volatile Organic Compounds (VOC):</b>	Data not available
<b>Ignition temp.</b>	425°C (797°F)
<b>Flash Point:</b>	21-55°C (70-131°F)
<b>Autoignition:</b>	Product is not self-igniting
<b>Solubility:</b>	Soluble in water

## X. STABILITY AND REACTIVITY:

**Stability:** Stable.  
**Conditions to avoid:** Acids, alkalis, oxidizing reagents.  
**Hazardous Decomposition:** Data not available.  
**Hazardous polymerization:** Data not available.

## XI. TOXICOLOGICAL INFORMATION:

**Skin Exposure:** Causes skin irritation. May be harmful if absorbed through skin.  
**Eye Exposure:** Causes eye irritation.  
**Inhalation:** Harmful if inhaled. Causes irritation to mucous membrane and upper respiratory tract.  
**Ingestion:** 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:** ISOPROPANOL (ISOPROPYL ALCOHOL), Solution  
**UN Number:** UN1219  
**Hazard Class:** 3 Flammable Liquids  
**Packing Group:** Packing Group II  
**Hazard Label:** 3

### IATA

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**Packing Group:** II  
**Hazard Label:** 3

## XV. REGULATORY INFORMATION:

### US Regulations/Classifications:

Harmful. Flammable.  
Harmful if swallowed. Irritating to eyes and skin.  
In case of contact with eyes, wash thoroughly and seek medical attention.

**SARA 313 listed:** 67-63-0 propan-2-ol

**IARC (international Agency for Research on Cancer):** 67-63-0 propan-2-ol

## 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.