

# Material Safety Data Sheet (MSDS) for DRAQ5®

## I. Identification:

**Product name:** DRAQ5®

**Product Catalog:** 4084

**Supplier:** Cell Signaling Technology  
3 Trask Lane  
Danvers, MA 01923 USA  
978-867-2300 TEL  
978-867-2400 FAX  
978-578-6737 EMERGENCY TEL

## II. Composition/Information on Ingredients:

**Substance Name:** 1,5-bis{[2-(di-methylamino) ethyl]amino}-4,8-dihydroxyanthracene-9,10-dione

**% Content:** >99%

**Formulation:** 5 mM in aqueous solution

**CAS# :** Not established

## III. Hazard Identification:

**!! CAUTION:** This product is not for use in humans. It is intended for research purposes only.

### EMERGENCY OVERVIEW

CYTOTOXIC AGENT

**Risk Phrases:** R 39/23/24/25

TOXIC; danger of very serious irreversible effects through inhalation and contact with skin and if swallowed.

**Safety Phrases:** S36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

## IV. First Aid Measures:

**Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Get medical attention or call Poison Control Center for most current information.

**Skin exposure:** In case of contact, immediately wash skin with soap and water for at least 15 minutes. Remove contaminated clothing. Wash clothing before reuse.

**Eye exposure:** In case of contact with eyes, immediately flush eyes with water for at least 15 minutes. Get medical attention.

## V. Fire Fighting Measures:

**Flash Point:** No data available.

**Autoignition Temperature:** No data available.

**Flammability:** No data 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. Wipe up with paper towels and wash site thoroughly with dish soap and water. Transfer clean up materials to a suitable closed chemical waste container for disposal. Contract licensed hazardous waste vendor for disposal.

**VII. Handling And Storage:** Store in tightly closed container at 4°C.

Do not freeze. All employees who handle this material should be trained to handle it safely. Avoid splashes and creating aerosols. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.

## VIII. Exposure Controls/Personal:

**Ventilation System:** A system of local and/or general exhaust is recommended.

**Skin Protection:** Wear compatible chemical resistant gloves and protective clothing, such as a lab coat.

**Eye protection:** Wear protective safety glasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

## IX. Physical And Chemical Properties:

<b>Appearance:</b>	Blue odorless liquid
<b>pH:</b>	data not available
<b>Melting Point:</b>	data not available
<b>Boiling Point:</b>	data not available
<b>Freezing point:</b>	data not available
<b>Volatile Organic Compounds:</b>	data not available
<b>Solubility:</b>	data not available

## X. Stability and Reactivity:

**Stability:** Stable under normal conditions. Avoid strong oxidizing agents and strong bases.

**Hazardous Polymerization:** No data available.

**Hazardous Decomposition:** No data available.

## XI. Toxicological Information:

**Acute Effects:** Not established.

**Chronic Effects**

**Potential Health Effects:** THIS MATERIAL IS CYTOTOXIC AND MAY BE CARCINOGENIC.

**Inhalation:** May be harmful, may be irritating to mucous membranes and upper respiratory tract.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May be harmful if absorbed through the eyes. May cause eye irritation.

**Ingestion:** May be harmful if swallowed. MAY CAUSE CARDIOVASCULAR AND BIRTH DEFECTS.

## XII. Ecological Information:

No data available.

**XIII. Disposal Considerations:** Dispose of in accordance with federal, state, local environmental regulations regarding CYTOTOXIC agents.

## XIV. Transport Information:

**DOT/IATA:** Shipped as "DANGEROUS GOODS IN EXCEPTED QUANTITIES" in all respects compliant with applicable international and national government regulations and the IATA Dangerous Goods Regulations.

**Proper Shipping Name:** Toxic Liquid, organic, NOS

**Class Number:** CLASS 6

**UN Number:** UN2810

**Packing Group:** III

## XV. Regulatory Information:

**SARA Listed:** No

**TSCA Listed:** No

**CERCLA RQ:** No

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

## XVI. Other Information:

This compound is sold only for research use only. It is not 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. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.