



## MATERIAL SAFETY DATA SHEET

Date Revised: March 13, 2008

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### PRODUCT AND COMPANY INFORMATION

**Product Name:** 5-Bromo-2'-deoxyuridine (BrdU)  
**Catalog Number:** 40024  
**Unit Size:** 100 mg

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### COMPOSITION AND INFORMATION ON INGREDIENTS

**Molecular Formula:**  $C_9H_{11}BrN_2O_5$   
**Molecular Weight:** 307.11 g/mol  
**CAS Number/Name:** 59-14-3

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### HAZARDS IDENTIFICATION

**Emergency Overview:** Handle with care—substance has not been fully tested.

#### POTENTIAL HEALTH EFFECTS

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.  
**Ingestions:** May be harmful if swallowed.  
**Skin:** May be harmful if absorbed through skin. May cause skin irritation  
**Eyes:** May cause eye irritation.  
**Chronic Exposures:** Not determined  
**Target Organs:** Immune System. Reproductive hazard. Delayed target organ effects.

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### FIRST AID MEASURES

Potentially harmful; avoid prolonged or repeated exposure. Wash hands thoroughly after handling. If eye or skin contact occurs, wash affected areas with water for 15 minutes and seek medical advice. If inhaled, move individual to fresh air and seek medical advice. If swallowed, seek medical advice.

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### FIRE FIGHTING MEASURES

Use carbon dioxide, dry chemical extinguishers, alcohol-resistant foam extinguishers or water. An approved self-contained breathing apparatus and protective clothing are recommended.

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### ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment and methods to clean up spilled substance promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

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### HANDLING AND STORAGE

Store desiccated in a tightly closed container at 4°C. Avoid long-term light exposure

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### EXPOSURE CONTROLS AND PERSONAL PROTECTION

Gloves, protective clothing and eyewear should be worn and safe laboratory practices followed.

**ACGIH/OSHA Permissible Exposure Limit Data:** Not determined

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### PHYSICAL AND CHEMICAL PROPERTIES

**Form:** off-white solid  
**Odor:** Not determined



## DATA SHEET

<b>Solubility in Water:</b>	low
<b>Specific Gravity:</b>	Not determined
<b>pH:</b>	Not determined
<b>Boiling Point:</b>	Not determined
<b>Melting Point:</b>	190 °C – Decomposes on heating.
<b>Flash Point:</b>	Not determined
<b>Vapor Pressure:</b>	Not determined

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### STABILITY AND REACTIVITY

**Thermal Decomposition:** No decomposition if used according to specifications

**Dangerous Reactions:** Strong oxidizing agents.

**Dangerous Products of Decomposition:** Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (Nox), Hydrogen bromide gas.

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### TOXICOLOGICAL INFORMATION

**RTECS Number:** None known

**Toxicity:** LD50 Oral –rat- 8,400 mg/kg

**Health Hazards:** We are not aware of any health hazards

**Potential Hazards:** Genotoxicity in vitro-rat-Embryo DNA damage.  
Genotoxicity in vivo-rat-Subcutaneous DNA inhibition  
Laboratory experiments have shown mutagenic effects. Overexposure may cause reproductive Disorder(s) based on tests with laboratory animals.

**Carcinogenicity:** Not listed by NTP, IARC or OSHA

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### ECOLOGICAL INFORMATION

Do not allow product to reach ground water, water course or sewage system.

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### DISPOSAL CONSIDERATIONS

Consult local, state or national regulations for proper disposal. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

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### TRANSPORT INFORMATION

**Hazards Class:** Not determined

**Identification Number:** Not determined

**Packing Group:** Not classified

**Proper Shipping Name (Technical Name):** Not determined

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### REGULATIONS

**US Toxic Substances Control Act (TSCA):** Not listed

**US Other:** Not applicable

**EEC EINECS Number:** Not identified

**EEC Risk Statements:** None identified

**Other Country Regulations:** None identified

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### OTHER INFORMATION

**Disclaimer:** The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.

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