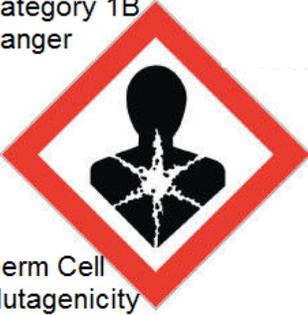


# Chemical Safety Practices Recommendations

## 5-Bromo-2'-deoxyuridine (BrdU)

### Exposure Hazards (1, 2)

<p>Category 1B Danger</p> <div style="text-align: center;">  </div> <p>Germ Cell Mutagenicity</p> <p>May cause genetic defects in offspring.</p>	<p>Category 2 Warning</p> <div style="text-align: center;">  </div> <p>Toxic to Reproduction</p> <p>May harm unborn children.</p>
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### Response to Exposure

Oral	Dermal	Inhalation	Injection
Rinse mouth; do not induce vomiting. Report to OHS.	Wash skin with soap and water for 15 minutes. Rinse eyes for 15 minutes. Report to OHS.	Leave area; go to clean air. Report to OHS.	Report to OHS.

<b>Special Precautions</b>	<b>Pregnant women should be extra cautious when working with BrdU.</b> Discard garments as hazardous if contaminated with BrdU.
<b>Personal Protective Equipment</b>	Gloves (Double glove) (Latex or Nitrile) Skin Protection (Suit or Scrubs or Lab Coat) Eye Protection (Safety-glasses or Goggles) Closed-toe shoes Use N100 respirator if engineering controls are not available.
<b>Engineering Controls</b>	BrdU powder- Chemical Fume Hood (CFH) BrdU solution- CFH or Biosafety Cabinet (Class II, B2 BSC if aerosolized)
<b>Animal Handling</b>	No special precautions.
<b>Bedding Disposal</b>	No special precautions.(3)
<b>Work Practices</b>	Empty BrdU containers and unused BrdU must be disposed of as hazardous. Follow LASP SOPs for preparation, handling, dosing, and disposal of BrdU.

**References:**

1. <5-Bromo-2'-Deoxyuridine.pdf> [Internet]. Sigma-Aldrich. 2014 [cited 10/27/2014]. Available from: <http://www.sigmaaldrich.com/united-states.html>.
2. Maier P, Weibel B, Zbinden G. The mutagenic activity of 5-bromo-2'-deoxyuridine (BrdU) in vivo in rats. Environmental mutagenesis. 1983;5(5):695-703.
3. Kriss JP, Revesz L. The distribution and fate of bromodeoxyuridine and bromodeoxycytidine in the mouse and rat. Cancer research. 1962;22:254-65.

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 Reviewed 12/03/2014 *These recommendations are not final and may be updated.*