**Chemical Safety Practices Recommendations**

5-Bromo-2′-deoxyuridine (BrdU)

### Exposure Hazards (1, 2)

<table>
<thead>
<tr>
<th>Category 1B</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger</td>
<td>Warning</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>Toxic to Reproduction</td>
</tr>
</tbody>
</table>

- May cause genetic defects in offspring.
- May harm unborn children.

### Response to Exposure

<table>
<thead>
<tr>
<th>Oral</th>
<th>Dermal</th>
<th>Inhalation</th>
<th>Injection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rinse mouth; do not induce vomiting. Report to OHS.</td>
<td>Wash skin with soap and water for 15 minutes. Rinse eyes for 15 minutes. Report to OHS.</td>
<td>Leave area; go to clean air. Report to OHS.</td>
<td>Report to OHS.</td>
</tr>
</tbody>
</table>

### Special Precautions

- Pregnant women should be extra cautious when working with BrdU.
- Discard garments as hazardous if contaminated with BrdU.

### Personal Protective Equipment

- 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.

### Engineering Controls

- BrdU powder- Chemical Fume Hood (CFH)
- BrdU solution- CFH or Biosafety Cabinet (Class II, B2 BSC if aerosolized)

### Animal Handling

- No special precautions.

### Bedding Disposal

- No special precautions.(3)

### Work Practices

- Empty BrdU containers and unused BrdU must be disposed of as hazardous.
- Follow LASP SOPs for preparation, handling, dosing, and disposal of BrdU.

### References:


Questions or concerns: Please contact EHS, Ted Witte, theodore.witte@nih.gov or 301-846-5860 Reviewed 12/03/2014  These recommendations are not final and may be updated.