Research has indicated that Bromo-Deoxyuridine has cytotoxic, strongly teratogenic, and mutagenic properties (Russo et al., 1984, Nakaguchi et al., 1971). These potentially severe side effects make BrDu exposure a significant health and safety threat to laboratory staff, animal handlers and other personnel who may be accidentally exposed to BrDu.

Animals receiving BrdU must be housed in a chemical hazardous room in the LARC facility.

To prevent exposure to BrDu:

- The animal bedding must be changed or emptied under a fume hood or a ventilated dump station while wearing all appropriate Personal Protective Equipment (PPE).

- The appropriate Personal Protective Equipment (PPE) consists of:
  - Examination gloves.
  - Safety glasses or safety goggles (ANSI Z-87 approved).
  - Lab coat.
  - Half face respirator
  - Appropriate laboratory attire.

- The carcasses should be double bagged and incinerated.

- Animals can be manipulated outside of a fume hood with the appropriate PPE described above.