

Chemical Safety Practices Recommendations

Brefeldin A (Ascotoxin, Synergisinin, Decumbin, Cyanein)

Exposure Hazards (1)

Category 3
Danger
Toxic



Toxic if swallowed.

Gastrointestinal discomfort followed by cyanosis may result from ingestion.(2)

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 if irritation develops.	Leave area; go to clean air. Report to OHS if difficulty breathing occurs.	Report to OHS.
Special Precautions	Brefeldin A in DMSO will <u>rapidly</u> penetrate gloves and skin. Discard garments as hazardous if contaminated with Brefeldin A.		
Personal Protective Equipment	Gloves (Latex or Nitrile) Skin Protection (Suit, Scrubs or Lab Coat) Eye Protection (Safety-glasses or Goggles) Closed-toe shoes		
Engineering Controls	Brefeldin A Powder- Chemical fume hood. Brefeldin A solution- Chemical fume hood or Biosafety Cabinet B2 <u>if aerosolization is likely to occur</u> (e.g. ultrasonication) (3)		
Animal Handling	No special precautions.		
Bedding Disposal	No special precautions.		
Work Practices	Empty Brefeldin A containers and unused Brefeldin A must be disposed of as hazardous. Follow LASP SOPs for preparation, handling, dosing, and disposal of Brefeldin A.		

References:

1. Brefeldin A MSDS [Internet]. Sigma-Aldrich. 2014 [cited 12/05/2014]. Available from: <http://www.sigmaaldrich.com/united-states.html>.
2. Singleton VL, Bohonos N, Ullstrup AJ. Decumbin, a new compound from a species of *Penicillium*. *Nature*. 1958;181(4615):1072-3.
3. National Research Council Committee on Prudent Practices in the L. The National Academies Collection: Reports funded by National Institutes of Health. *Prudent Practices in the Laboratory: Handling and Management of Chemical Hazards: Updated Version*. Washington (DC): National Academies Press (US) National Academy of Sciences.; 2011.

Questions or concerns: Please contact EHS, Ted Witte, theodore.witte@nih.gov or 301-846-5860
Reviewed 12/05/2014 *These recommendations are not final and may be updated.*