General notes:

- 1. Thin gauge gloves (< 8-10 mils) are designed to provide barrier protection with maximum tactile sensitivity and dexterity. These gloves are not designed for continuous chemical contact or immersion. Due to the limited chemical protection properties of thin gauge gloves, in situations when incidental chemical contact occurs, the user should remove the gloves immediately and replace with a new pair.
- 2. Vinyl gloves are inappropriate for chemical use.
- 3. May want to wear latex or other <u>over</u>-glove with Silver Shield gloves for improved manual dexterity. Silver Shield Lite gloves may be preferred and they are reported to provide equivalent chemical protection.

| Chemical/Substar | nce | Recommended Glove | | |
|--|----------------------------|------------------------------|--|--|
| | | I Contact LY ¹ | Immersion or other continual contact ² (<u>No</u> thin gauge gloves ³) | |
| 1. Acetic Acid | Latex | 1 | Neoprene, butyl, or Silver Shield | |
| 2. Acetone | Latex, nitrile, or | neoprene E | Butyl or Silver Shield | |
| 3. Acetonitrile | Neoprene or nit | rile E | Butyl or Silver Shield | |
| 4. Ammonium hydroxid | le Latex or nitrile | 1 | Neoprene, nitrile, or butyl | |
| 5. Bleach/water (15%) | Latex or nitrile | 9 | Silver Shield | |
| 6. Chloroform | Nitrile | | Silver Shield | |
| DMSO or anything m with DMSO | nixed Latex, or nitrile | 1 | Neoprene, Butyl or Silver Shield | |
| 8. Drug powders (no so | olvents) Latex, nitrile or | neoprene l | Latex, nitrile, or neoprene | |
| 9. Ethanol ⁴ | Latex, nitrile, or | neoprene | Nitrile, butyl, or Silver Shield | |
| 10. Ethyl Acetate | Nitrile or neopre | ene E | Buty bue or neopr | |

References

- 1. Forsberg K. Mansdorf SZ. Quick Selection Guide to Chemical Protective Clothing, 2nd ed. Van Nostrand Reinhold, 1993.
- 2. Oklahoma State University Chemical Guide, http://www.pp.okstate.edu/ehs/hazmat/gloves.htm
- 3. VWR 2000/2001 Catalog, Chemical Resistance Chart, pages 734-735. Referenced by this catalog as from Forsberg and Keith (1989) Chemical Protective Clothing Performance Index Book. John Wiley and Sons. "This information has been provided by Best Manufacturing Company and is applicable only to Best gloves."
- 4. North ezGuide Interactive Glove and Respirator Selection Guide, Product No. EZGUIDE-V11224, Version 1.0, 1999
- 5. Best Comprehensive Guide to Chemical-Resistant Best Gloves, Version 3.0, 1995

Photographs of Selected Glove Types

Latex (thin gauge)

Nitrile (thin gauge)



Silver Shield

Silver Shield Lite