Safe Use of Lead Shielding

Lead is a widely used and highly effective means of shielding radiation. However, metallic lead itself can be toxic if ingested or inhaled. Studies have shown that lead particles are readily removed from the surface of uncoated lead and can be a source of occupational exposure. Lead particles may be transferred to hands or clothing, or accumulate as dust on floors and other laboratory surfaces. Under heavy handling, it may even become airborne. The following guidelines can help reduce your exposure to this material when handling or working with lead shielding.

- ALWAYS wear gloves when handling metallic lead. If you handle more than a few pieces, also wear a disposable lab coat and safety glasses.
- Regularly clean work areas around lead shielding using damp wipes.
- Wash hands thoroughly after handling lead and before leaving the lab.
- Cover lead with plastic sheeting to prevent lead contamination when working with unsealed radioactive material.
- Purchas or prepare encapsulated lead whenever possible.
- NEVER use lead bricks as a doorstop!
- Avoid putting labels or stickers on lead as they can make future reuse or recycling difficult.
- Never throw lead out in the regular trash call Radiation Safety 414-430-7507.
- Lead is very heavy. Lift only one brick at a time, and avoid reaching or twisting while lifting. Set bricks down gently to minimize dust generation, and beware of fingers and toes.
- If your work area needs a large amount of lead shielding for radiation protection, make sure the floor and any furniture can handle the weight.

Call Radiation Safety if you have any further questions, 414-430-7507.