

Standard Operating Procedure

Title: SOP-012 Adhesives

PI: Art Erdman **Lab Location:** Mayo G217

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Hazard Identification:

Physical Danger

Exposure Assessment:

Skin Contact

- **Hazardous Chemicals**
Some adhesives contain chemicals that can be hazardous to skin. Avoid all possible skin contact with adhesives.
- **Skin Attachment**
Adhesives that attach to skin can cause serious harm. The adhesive could then attach to another surface that it comes into contact with. This could be quite dangerous. Avoid all possible skin contact with adhesives.

Fumes

- **Flammable Vapors**
Many adhesives are flammable and give off flammable vapors. High vapor concentrations near a spark, hot element, or open flame may ignite causing severe burns.
- **Hazardous Vapors**
Some adhesives contain chemicals that produce dangerous fumes. These vapors can cause serious damage to one's health.

Control Plan:

- Always wear gloves when handling adhesives to avoid contact with skin
- Wear protective garments to cover exposed skin
- Be familiar with chemicals in adhesive being used
- Wear safety glasses at all times while using adhesive in case of splashing

- If necessary, wear a face guard too
- Work in a well-ventilated area when using adhesives to avoid inhaling vapors or build-up of flammable vapors
- Keep adhesive a safe distance away from any exposed skin
- Keep adhesive away from sparks, heating elements, open flame, or any other source that may cause ignition of adhesive or fumes
- Keep adhesive bottle closed when not being applied
- Do not wear neckties, jewelry, or loose clothing, as they could come into contact with adhesive
- Tie up long hair or wear protective hair covering to prevent hair from coming in contact with adhesive

Experimental Procedures:

- Put on all safety equipment and tie back loose hair or clothing
- Check to make sure correct adhesive is ready to be used
- Prepare work space by laying down brown paper
- Prepare work piece for adhesive operation on top of brown paper work space
- When ready, open adhesive bottle and use right away on work piece as desired
 - Keep all exposed skin away from adhesive during application
- Close adhesive bottle right away
- Leave work piece in desired position to let adhesive attach and dry to work piece
- Remove work piece when finished
- Clean workspace. Dispose of any unwanted remains (see Waste Management Procedures)
- Return adhesive to its appropriate location

For other inquiries, see information located on specific adhesive bottle.

Waste Management Procedures:

When finished with the adhesive, put it away promptly. Always clean the area and watch out for any adhesive that may remain. Paper towels and cleaning solution (including adhesive remover) can be found in G217-11. Dispose of any leftover material or debris appropriately.

Place all other materials back in the appropriate place.

Spill and Accident Procedures:

If an accident occurs, report immediately to the lab supervisor (G217-05) or other appropriate staff member. If no one is around, dial 911 on the landline phone near the door of G217-11 to reach the campus police. If needed, the lab first aid kit is located on the wall near the sink. A first aid pamphlet from DEHS is located in all of the MDC's first aid kits.