



CAUTION



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad



INDIAN INSTITUTE OF TECHNOLOGY, HYDERABAD
Kandi, Sanga Reddy – 502 284

LAB SAFETY GUIDELINES

LAB SAFETY

1. Always know the hazards of the materials used (e.g., corrosivity, flammability, reactivity, and toxicity).
2. Read the Material Safety Data Sheets (MSDS) for information on all chemicals you plan to use.
3. Post a sign on the door to notify others of the lab hazards and list of emergency contact numbers.
4. Inspect equipment and apparatus for weaknesses, cracks, or damage before beginning work.
5. Inspect electrical equipment and cords for frayed wiring or damage before use.
6. Cylinders must be capped when the regulator is removed or not in use.
7. Inspect the lab weekly for hazardous conditions.
8. Always gas cylinders should be properly chained.
9. Know where the nearest emergency eyewash and showers are, and how to use them.
10. Know at least two exits from the laboratory area in case of an emergency.
11. In the event of an emergency, pull the nearest "MANUAL CALL POINT", evacuate the area, and close all doors.
12. Know where the nearest "FIRE EXTINGUISHER" is and how to use it

PERSONAL SAFETY

DO'S

1. Know your experimental procedures and related safety precautions before you enter the lab.
2. Always wear a lab apron.
3. Always wear safety glasses.
4. Always wear shoes that cover your feet.
5. Always keep your working area clean and tidy and free of clutter.
6. Always keep benches tidy and gangways clear.
7. Always know the location your nearest fire extinguisher and first aid kit point.
8. Always know your emergency escape route and assembly point.
9. Always wash your hands after experiments.
10. Know the emergency contact numbers of IITH.
11. Always gives support to the gas cylinders with chain, and always close cylinder valves after use.
12. Always secure the tops of reagent bottles immediately after use.

Dont's

1. Avoid direct contact with any chemical.
2. Never smell, inhale, or taste laboratory chemicals.
3. Never eat, drink, chew gum or tobacco, smoke or apply cosmetics in the laboratory.
4. Do not pick up broken glass with your hands.
5. Do not block emergency showers, eye washes, exits or hallways.
6. Never use mouth suction to fill a pipette or siphon. Use a pipette bulb or other suitable device.
7. Do not work alone in the lab. Make sure that at least two lab mates are around.
8. Do not eat, drink or smoke in the laboratory under any circumstances.
9. Never run or play in the laboratory.
10. Never use your bare hands to transfer chemicals.
11. Never leave experiments unattended.
12. No unlabeled substance should be present in the laboratory at any time.