

Safety instructions for the use of gas cylinders in laboratories / workshops within the boundaries of the University

1. **Inert gas cylinders (such as nitrogen carbon dioxide helium, argon)** - will be anchored to the wall of the laboratory - **each cylinder separately exactly at the bottom of the upper third**. Additionally, the ventilation of the laboratory is to be ensured **at least 6 air replacements per hour!**
2. **Cylinders of flammable gas (such as hydrogen, acetylene, propane)** - **are strictly prohibited from being located inside buildings** - these are to be placed **outside of the building** in a locked cabinet appropriate for the type of gas. (**Empty gas cylinders are also prohibited!**). An automatic cut off valve is required in the laboratory in the case of a leak, a fire extinguisher and a leak detector that dispatches an alert to the laboratory manager and to the security manager and simultaneously shuts off the cylinder tap.
3. **Toxic gas cylinders (such as carbon monoxide, fluorine, ammonia, phosphine)** - **are strictly prohibited from being located inside buildings** these are to be placed outside of the building in a suitable exhaust cabinet attached to a suction system. Transporting gas will be effected in a double pumped pipe attached to a pumping system. An automatic cut off valve is required in the laboratory in the case of a leak, a fire extinguisher and a leak detector that dispatches an alert to the laboratory manager and to the security manager and simultaneously shuts off the cylinder tap.
4. **LPG (cooking gas) in containers larger than 1 kg.** - **are strictly prohibited from being located inside buildings and, furthermore, LPG gas cylinders are not to be placed on balconies nor verandahs outside of the laboratory.**
5. **Every gas cylinder not attached to a supply pipeline must be fitted with a cap.**
6. **Cylinders containing non inert gas must be removed to the outside of the building** to a yard in a separate, well ventilated, shaded, fenced off and locked area. Make sure to place suitable safety signs. The Security Unit will be happy to provide advice insofar as required.
7. Expired gas cylinders are to be returned to the vendor or be dispatched to the Neot Hovav site for disposal.
8. All maintenance work in the laboratories or in the corridors adjacent to gas cylinders or other hazardous materials requires the prior authorization of the Laboratory Manager and / or the Chairman of the Safety Committee of the Unit.
9. Make sure that the gas cylinders delivered to you are not damaged, are not rusty nor corroded and are painted pursuant to the standard. The name of the gas will appear clearly on the cylinder.