

LABORATORY SAFETY MANUAL - REVISION

Compressed Gas Cylinder Cabinets

Cylinders containing the compressed gases listed below must be kept in a continuously, mechanically ventilated enclosure. Full size cylinders must be stored in a gas cylinder cabinet. No more than two small cylinders can be stored in a chemical fume hood, a storage cabinet under the fume hood (if properly ventilated into fume hood exhaust), or some other ventilated enclosure. Compressed gas cylinder cabinets purchased by P.I.s must meet Article 80 of the Uniform Fire Code including the following requirements: negative pressure in relation to the surrounding area with the exhaust from the cabinet going to the outside of the building, self-closing doors, and internally sprinkled. Cylinders stored in compressed gas cylinder cabinets or other ventilated enclosures must be secured at all times. When stored in a cabinet or hood, small cylinders must be positioned and secured so that they will not fall out.

Acetylene	Fluorine
Ammonia	Formaldehyde
Arsenic Pentafluoride	Germane
Arsine	Hydrogen Chloride, anhydrous
Boron Trifluoride	Hydrogen Cyanide
1,3 - Butadiene	Hydrogen Fluoride
Carbon Monoxide	Hydrogen Selenide
Carbon Oxysulfide	Hydrogen Sulfide
Chlorine	Methylamine
Chlorine Monoxide	Methyl Bromide
Chlorine Trifluoride	Methyl Chloride
Chloroethane	Methyl Mercaptan
Cyanogen	Nitrogen Oxides
Diborane	Phosgene
Dichloroborane	Phosphine
Dichlorosilane	Silane
Dimethylamine	Silicon Tetrafluoride
Ethane	Stibine
Ethylamine	Trimethylamine
Ethylene	Vinyl Chloride
Ethylene Oxide	

Recognizing that because of age or physical constraints, as determined by The University's Physical Plant, a facility may not be able to comply with these requirements, notification of non-compliance, the associated explanation, and a

copy of the Physical Plant determination must be sent to the Office of Environmental Health & Safety as well as to the Department Chair and College Dean. As modifications can be made to the building, labs will be brought into compliance. In the interim, compressed gases listed above must be used in quantities which will fit into existing ventilated enclosures or justification must be provided explaining why this is not possible. These justifications must also be submitted to the office listed above.

This replaces the section entitled "**Compressed Gas Cylinder Cabinets,**"
on page 12 of the Laboratory Safety Manual (11/98)

(Rev. 7/2/97)