

TABLE 37-A
A READY-REFERENCE CHART OF THE FIVE TARGET HEALTH HAZARDS

TARGET HEALTH HAZARD	What Is the Health Hazard?	Current OSHA Approved Levels	How Is It Detected?	How Is It Controlled?	Sources for Information
ASBESTOS (Dust)	Prolonged inhalation of asbestos fibers between 5 and 50 microns long can produce asbestosis, and possibly lung cancer	Five fibers per milliliter greater than five microns in length for an eight-hour, time-weighted average air-borne concentration	To be collected with personal sampling pump. Fibers will be counted microscopically at 400–450 magnification using phase contrast illumination.	Enclosure and local exhaust ventilation for equipment and operations. Approved respirators for personnel	Asbestos Information Association 1660 L St., N.W. Washington, D.C. 20036
COTTON DUST (Dust)	Prolonged exposure can cause byssinosis, which can progress to chronic bronchitis and emphysema	One milligram per cubic meter of air for eight-hour, time-weighted average air-borne concentration	Personal sampler is attached to workman's clothing, with the uncovered filter facing down, usually for six-hour sample	Machinery enclosure and local exhaust ventilation. Also, pretreatment of cotton. Approved respirators	American Textile Mfr. Inst., 1501 Johnston Building, Charlotte, N.C. 28281 Cotton, Inc., 4505 Creedmoor Rd., Raleigh, N.C. 27612 National Cotton Council, P.O. Box 12285, Memphis, Tenn. 38112
CARBON MONOXIDE (Gas)	Carbon monoxide displaces oxygen in the blood, causing suffocation. High concentrations are fatal	50 parts per million parts of air for eight-hour, time-weighted average air-borne concentration	Primary method is CO portable, hopcalite reagent-type meter. Secondary method is certified detector tubes. Personal, color-changing dosimeters available	Adequate ventilation. Isolation of hazardous operations. Automated detection alarm systems	Compressed Gas Association 500 Fifth Ave. New York, N.Y. 10036
LEAD	Prolonged exposure can cause severe	0.2 milligrams per cubic meter of air	Sample collection minimum of 60 minutes by personal sampling pump on	Enclosure and local exhaust ventilation. Wet or vacuum clean-	