

Laboratory Request for Respirator Use (Airborne Hazard) Evaluation

This form is for requesting an airborne hazard evaluation of an operation(s) that may require use of a voluntary/required respirator (dust mask).

An airborne hazard evaluation should be performed **for each operation** where potential for overexposure to a hazardous airborne material may be possible during routine operations and where respirator use is requested. To request an EHS evaluation of such activities, the Principal Investigator (PI) needs to provide the information requested below; use additional sheets, as needed.

Please send the request by [email](#) or campus mail to P. Subramanian (Subu) at EHS, 100 EHS, 122 Grand Avenue Court.

Note: N95/R95 dust masks do not provide protection against solvent vapors, gases, pyrophoric or acutely toxic substances, including formaldehyde vapors or aerosols.

Also, particulate filtering N95/R95 dust masks are not to be used as an alternative to using proper engineering controls.

Mask Storage Room and Bldg. (e.g., 1-675A, BSB): _____ Dust mask currently in use/or to be used: _____ PI: _____
(e.g., 3M 1860S N95; 3M 8247 R95, etc.)

Mask use location Room/bldg.	Chemical Full Name	Suspected Hazard	Mask Use Activities	Estimated Quantity/ Conc.	Exposure Time (min./hr.)	Frequency of Use
			<input type="checkbox"/> Weighing <input type="checkbox"/> Dissolution; liq./ solvent: _____ <input type="checkbox"/> Liquid/solvent transfer <input type="checkbox"/> Other activities _____ _____ _____	Weighed Amount (mg/g): _____ Dissolution Solvent: _____ Estimated Soln. Conc. mg/ml): _____		<input type="checkbox"/> Once per day or less <input type="checkbox"/> Multiple times per day: _____ times <input type="checkbox"/> Multiple times per week: _____ times <input type="checkbox"/> Multiple times per month _____ times <input type="checkbox"/> Multiple times per year: _____ times <input type="checkbox"/> Other, state: _____ _____
			<input type="checkbox"/> Weighing <input type="checkbox"/> Dissolution; liq./ solvent: _____ <input type="checkbox"/> Liquid/solvent transfer <input type="checkbox"/> Other activities _____ _____ _____	Weighed Amount (mg/g): _____ Dissolution Solvent: _____ Estimated Soln. Conc. mg/ml): _____		<input type="checkbox"/> Once per day or less <input type="checkbox"/> Multiple times per day: _____ times <input type="checkbox"/> Multiple times per week: _____ times <input type="checkbox"/> Multiple times per month _____ times <input type="checkbox"/> Multiple times per year: _____ times <input type="checkbox"/> Other, state _____ _____
			<input type="checkbox"/> Weighing <input type="checkbox"/> Dissolution; liq./ solvent: _____ <input type="checkbox"/> Liquid/solvent transfer <input type="checkbox"/> Other activities _____ _____ _____	Weighed Amount (mg/g): _____ Dissolution Solvent: _____ Estimated Soln. Conc. mg/ml): _____		<input type="checkbox"/> Once per day or less <input type="checkbox"/> Multiple times per day: _____ times <input type="checkbox"/> Multiple times per week: _____ times <input type="checkbox"/> Multiple times per month _____ times <input type="checkbox"/> Multiple times per year: _____ times <input type="checkbox"/> Other, state _____ _____

If activities involving any of the following hazardous substances are performed without the use of a fume hood, an evaluation of that work should be done. Please check all materials listed below that are used outside of a fume hood. For more information, please see OSHA's regulated hazardous chemicals in the [OSHA website](#) and NIOSH Carcinogens in [NIOSH website](#)

Name, CAS number & physical state at room temp

- Vinyl chloride, 75014 (gas)
- 3-Butadiene (BD), 6-99-0 (gas)
- Methyl chloromethyl ether, 107-30-2 (liquid)
- bis-Chloromethyl ether, 542-88-1 (liquid)
- Ethylene oxide, 75-21-8 (liquid)
- alpha-Naphthylamine, 13432-7 (low melting solid)
- beta-Naphthylamine, 91-59-8 (solid)
- 2-Acetylaminofluorene, 53-96-3 (powder)
- Ethyleneimine, 151-56-4 (corrosive liquid)
- Acrylonitrile, 107-13-11 (liquid)
- beta-Propiolactone, 57-57-8 (liquid)
- Methylene chloride, 75-09-2 (liquid)

Name, CAS number & physical state at room temp

- N-Nitrosodimethylamine, 62759 (liquid)
- Benzene, 71-43-2 (liquid)
- 1,2-Dibromo-3-chloropropane (DBCP), 96-12-8 (liquid)
- Benzidine, 92-87-5 (solid)
- Methylenedianiline, 101-77-9 (solid)
- 4-Aminodiphenyl, 92-67-1 (solid)
- Formaldehyde (& substances releasing formaldehyde),
- 50-00-0 (formaldehyde) PFA-solid; formalin, solution)
- 4-Dimethylaminoazo-benzene, 60-11-7 (solid)
- 3,3'-Dichlorobenzidine (& salts), 91-94-1 (solid)
- 4-Nitrobiphenyl, 92-9-33 (solid)

Name, CAS number & physical state at room temp (Inorganics)

- Arsenic (Inorganic and its compounds), 7440-38-2 (arsenic)
- Cadmium and its compounds, 7740-43-9 (cadmium)
- Lead (Inorganic and its compounds), 7439-92-1 (lead)
- Hexavalent chromium (VI) forms, compounds, 8540-29-9
- Chromium trioxide, 1333-82-0
- Asbestos 1332-21-4 (fiber, powder)
- Coke oven emissions
- Raw cotton dust