MIT Environment, Health, & Safety Office

Evaluation of Respiratory Exposure Hazards

IMPORTANT: Please fill out this questionnaire on your own or with the help of your supervisor/PI BEFORE you report to the EHS Office for your respirator fit test.

Please email responses to: respirators@mit.edu

Name

Date

E-mail

Phone

Bldg./Room #

Supervisor/ Principal Investigator

Who completed this form?

- ○ Researcher
- ○ Supervisor/PI

Department

The purpose of this evaluation is to characterize the respiratory hazards associated with the use or handling of hazardous chemicals and materials in your work task(s).

OSHA and other organizations have published criteria which MIT uses to establish requirements relative to the use of respiratory protective equipment.

In order to initially evaluate the respiratory exposure hazards, please provide the following information:

1. What are the potentially hazardous chemical(s) or substance(s) which have prompted the request for respiratory protection or an evaluation?

2. Describe in detail the processes or operations in which the chemical or material is or will be used. Include information about the chemical and physical state(s) of substances used, the amount of each chemical used, and the physical conditions under which the chemicals are used (e.g., temperature, pressure).

3. How often is the process performed?

4. Describe any other factors which you think may increase hazards from working with the chemical or material such as grinding, machining, evaporation, etc.

5. Describe the work environment and working conditions:

5.1 Approximate dimensions of work area

5.2 Any general or local exhaust in the area (if so, describe)

5.3 Is the work space in an unusual configuration?

5.4. Are any other staff or students involved in or in close proximity to the process?

5.5. Any other conditions that you consider important:

6. Describe the level of work activity and any possible physical stresses on the respirator user.

7. What other personal protective equipment (PPE) may be required?

Done! The next section is for EHS to fill out.

8. Describe reasonably foreseeable emergency situations, given the description of chemical use in the process. Would this type of situation likely require a greater degree of respiratory protection?

9. Has personal exposure monitoring or area sampling been conducted by IHP to characterize this exposure? (check the air sampling cross-reference file) Describe the outcome of the monitoring.

10. Has personal exposure monitoring or area sampling been conducted by IHP during similar operations at other MIT locations? (check the air sampling cross-reference file)

11. Can real-time monitoring be conducted during the process/operation to provide an estimate of exposure risk?

12. Recommendation for RPE, including cartridge specification, end of life indication, facepiece specification, and warning properties.

12a. Respirator type:

- ☐ Full Face
- ☐ Half Face
- ☐ N95
- ☐ P100 disposable