

North Dakota State University

Respirator Selection/Assessment Worksheet

1. Identify the Material
 - a. Chemical Name: _____
 - b. Trade Name: _____
 - c. Formula: _____
 - d. Allowable concentration limits, TLV or TWA: _____
 1. OSHA 1910-1000: _____
 2. Current ACGIH: _____
 3. Short Term Exposure Limit (STEL): _____
2. Form in which it will be used:
 Liquid: Solid: Gaseous:
 If gaseous, is it an organic vapor: or Gas vapor: Other:
3. Maximum expected concentration:
 - a. Parts per million: _____
 - b. Milligrams per cubic meter: _____
 - c. Duration of exposure to maximum expected concentration: _____
4. Will material be heated? Yes No
If yes, to what temperature? _____
5. What is the odor threshold of the material? _____
6. At what concentration is the material considered to be immediately dangerous to life or health (IDLH)? _____
7. At what concentration is it an irritant? _____
8. Can the substance be absorbed through the skin? Yes No
9. Irritant to:
Eyes: Yes No
Respiratory Tract: Yes No
Skin: Yes No
10. If known to be flammable, what are the lower and upper flammable limits?
In percent by volume: Lower: _____ Upper: _____
11. What is the vapor pressure of the material? _____
12. Will the material be mixed with other chemicals? Yes No
If yes, give details: _____

13. Any possibility of oxygen deficiency? Yes No

14. Results of any other air monitoring: _____

15. Can good ventilation of the area be maintained? Yes No

16. Will the exposure be continuous or intermittent? _____

17. Will the respirator device be used for any of the following:

Routine exposures? Yes No

As an escape device? Yes No

As an emergency re-entry device? Yes No

Voluntary Use? Yes No

18. Provide as much detail as possible concerning exposure conditions..
