

Figure I-2

Exposure Potential According to AFR Category

Alternative Fuel Category	Potential Level of Concern ^a	Typical Personal Protective Equipment Recommendations ^b			Typical Emergency Response Procedures
		Respirator ^c	Gloves ^d	Coveralls ^e	Spills ^f
Petroleum hydrocarbons	Moderate	A	2	II	X
Halogenated wastes	High	A	2	II	Y
Non-halogenated wastes	Moderate	A	3	II	Y
Wood materials	Low	B ^g	1 ^g	I ^g	W
Plastic wastes	Low	B ^g	1 ^g	II	W
Paint/varnish waste	Moderate	A	3	II	Y
Pesticides/herbicides	Moderate	E	4	II	Y
Metal residues	Low	B	1	I	W
Acids and caustics	High	C	4	II	Z
Cyanides	High	D	2	I	Y
Biological wastes	Moderate	B	1	I	W ^h
Waste Coal, Activated Carbon	Low	B	1	I	W
Paper and Cardboard	Low	B	1	I	W
Tires	Low	B	1	I	W
Medical waste	Moderate	B	1	II	W ^h
Nitrile-containing waste	Moderate	A	3	II	Y
Miscellaneous waste materials	Low ⁱ	B ⁱ	1 ⁱ	I ⁱ	W ^h

Footnotes are presented on the next page.

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- a** Subjective ranking based primarily on potential toxicity of indicator chemicals for each AFR category. See Section V and Table V-1 for indicator chemical descriptions.
- b** These recommendations are for general handling and for cleanup of small spills. Large spill cleanups, if handled by plant personnel, should be conducted on a cases-by-case basis and likely will require specialized PPE and specialized procedures (see Section VIII).
- c** If reliable chemical profile information is available, the respirator should be selected using the complete list in Table VI-2 or in Appendix D, Subpart D-1. If a specific chemical profile is not available for the particular AFR category, the noted respirator is recommended, based on AFR-specific indicator chemicals.
 - A** organic vapor cartridge
 - B** particulate filter
 - C** acid gas cartridge
 - D** supplied air respirator (supplied air line or self-contained breathing apparatus; SCBA)
 - E** chemical-specific cartridge (see Table VI-2 in Appendix B or Subpart D-1 in Appendix D)If reliable chemical profile information is available, the glove type should be selected using the complete list in
- d** Table VI-3 or in Appendix D, Subpart D-2. If a specific chemical profile is not available for the particular AFR category, the noted glove type is recommended, based on AFR-specific indicator chemicals.
 - 1** normal work gloves (e.g., puncture resistant leather)
 - 2** nitrile (nitrile rubber or viton)
 - 3** butyl (butyl rubber)
 - 4** neoprene (neoprene rubber)In general, use normal cloth or canvas coveralls for solid materials and Tyvek or comparable, coated, splash-resistant coveralls for liquid or sludge materials.
- e**
 - I** cloth or canvas coveralls
 - II** Tyvek or comparable splash-resistant coverallsAs described in Section VIII, there are four basic procedures for the cleanup of small to medium releases:
 - W** sweep up dry material and containerize
- f**
 - X** deploy appropriate size petroleum spill kit
 - Y** deploy appropriate size chemical spill kit
 - Z** deploy appropriate size acid/caustic spill kitIn the case of impregnated sawdust or plastic waste with chemical residue, the respirator should be particulate filter plus organic vapor cartridge, the gloves should be puncture resistant nitrile rubber and clothing should be coated Tyvek or compatible.
- g** For sludge or liquid waste, general absorbant material (e.g., "cat litter") may be required prior to sweeping and containerizing.

Miscellaneous waste encompasses a wide variety of materials. These recommendations should be evaluated
- h** on a case-by-case basis. Consult Section IV-17a through IV-17i for specific recommendations.
- i**