

Haz-Com 40 NIOSH Pocket Guide Exercise

Chemical Name	PEL	IDLH	LEL/UEL	Physical Description	Routes of Entry
Ammonia			/		
Inorganic Arsenic			/		
Chlorine			/		
Fiber glass			/		
Iron Oxide Dust			/		
Nicotine			/		
Portland Cement			/		
Carbon Monoxide			/		

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Answer Key

Chemical Name	PEL	IDLH	LEL/UEL	Physical Description	Routes of Entry
Ammonia	50ppm	300ppm	15% / 28%	Colorless gas with Pungent odor	Inhalation Ingestion Skin/Eye Contact
Inorganic Arsenic	0.010 mg/m ³	5 mg/m ³	NA / NA	Silver-gray or tin-white brittle odorless solid	Inhalation Skin/eye contact Skin absorption Ingestion
Chlorine	C 1ppm	10ppm	NA / NA	Greenish-yellow gas with a pungent irritating odor	Inhalation Skin/eye contact
Fiber glass	15mg/m ³ Total 5mg/m ³ Resp	N.D. (None determined)	NA / NA	Glass filaments Note: Fiber size is 3.5 microns x 10 microns (1 millionth of a meter)	Inhalation Skin/eye contact
Iron Oxide Dust	10mg/m ³	2500mg/m ³	NA / NA	Reddish/brown Solid	Inhalation
Nicotine	0.5 mg/m ³	5mg/m ³	0.7% / 4.0%	Pale-yellow liquid with a fish-like odor (insecticide)	Inhalation Skin absorption Ingestion Skin/eye contact
Portland Cement	50mpp/cf (millions of particles per cubic foot)	5000mpp/cf	NA / NA	Gray odorless powder	Inhalation Ingestion Skin/eye contact
Carbon Monoxide	50 ppm	1200ppm	12.5% / 74%	Colorless odorless gas	Inhalation Skin/eye contact (when liquid)