

APPENDIX II

CHEMICAL WARFARE AGENTS

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<u>Military Category</u>	<u>Common/ Code Name</u>	<u>Method of Dissemination:</u>	<u>Effects on Humans</u>	<u>Lethal Dosage** (mg-minute/m³)</u>
Harassing Agents				
Irritants (tear gas)	CN	Aerosol	Burning feeling	11,000
	CS*	Dispersed powder	Tears, respiratory difficulty	25,000
	CR*	Liquid/aerosol	Nausea	25,000
Casualty Agents				
Incapacitants	BZ*	Aerosol	Psychotropic action, giddiness, disorientation	
Poison gas	Chlorine	Vapour	Lung irritation	19,000
	Phosgene	Vapour	Bronchopneumonia	3,200
	Mustard gas*	Vapour	Severe blistering skin, eye and lung damage	1,500
	Lewisite	Vapour	Bronchopneumonia	1,300
	Blood gas	Vapour	Respiratory blockage, respiratory failure	25,000
Nerve gas	Tabun (GA)*	Vapour/liquid	Sweating, vomiting	400
	Sarin (GB)*	Vapour/liquid	Cramps, chest tightness, coma, convulsions	100
	Soman (GD)*	Vapour/liquid	Death from asphyxiation	50
	VX*	Liquid aerosol	Convulsions, death	10

* Stockpiled today in the US.

** Amount of airborne agent likely to kill about fifty percent of people exposed if unprotected. Oral exposure would reduce figure dramatically (eg, the lethal dose of VX taken orally = 0.3 mg).

Reproduced from No Fire, No Thunder: The Threat of Chemical and Biological Warfare, by Sean Murphy, Alastair Hay and Steven Rose, Pluto Press, 1984.