

**Key References Cited/Used in National Response Team (NRT) Quick Reference Guides (QRGs) for Chemical Warfare Agents.
Chlorine Gas (CL), Methylisocyanate (MIC), and Phosgene (CG)
2012 Revision**

The following references are not intended to be an exhaustive list or critical review of the literature. Instead, it is intended to provide sources that support the statements and provide potential added relevant detail pertaining to the section topic and agent specified. The reader will recognize that the literature sometimes represents multiple opinions, as frequently is the case in scientific literature, to alert the reader to the range of opinions available on the topic. Often this range is a result of the original literature being intended for an equally broad range of purposes. The reader should note that the QRGs represent a Subject Matter Expert consensus of these opinions, focused on the specific purpose of the QRG, which is to inform Federal OSCs of important information about the agents that may be useful to their activities during their first 24-48 hours on site. After this initial period, it is thought that additional resources and subject matter experts will be available to the OSCs.

Key: In the reference table, “✓” means the data can be found directly in the citation. “O” means that the data in the citation refers to a different agent but, through best professional judgement, can be applied to the agent listed.

Reference Documents	General	Chlorine	MIC	Phosgene
Agents and Characteristics				
National Research Council/Committee on Toxicology . 2003. <i>Acute Exposure Guidelines for Selected Airborne Chemicals, Vol 3</i> . National Academy Press, Washington, DC.			✓	
Agency for Toxic Substances and Disease Registry (ATSDR) . 2010. <i>Toxicological Profile for Chlorine</i> . Department of Health and Human Services, Public Health Service, ATSDR, Atlanta, GA.		✓		
USACHPPM, 2008 . Technical Guide 244: The Medical CBRN Battlebook, Oct 2008.	✓	✓	✓	✓
The Emergency Response Safety and Health Database , NIOSH (last accessed August 2011)	✓	✓	✓	✓
Hazardous Substance Database , US National Library of Medicine		✓	✓	✓
Chemical Hazards Emergency Medical Management (CHEMM) , National Library of Medicine, Includes links to WISER (last accessed August 2011)	✓	✓	✓	✓
Medical Management Guidelines, ATSDR (last accessed August 2011)	✓	✓	✓	✓
Phosgene, Health and Safety Guide (last accessed May 2011)				✓
“Phosgene” in Ullmann’s Encyclopedia of Industrial Chemistry (last accessed May 2011)				✓
Release Scenario				
“Chemical Agents as Weapons of Terror Rather Than as Weapons of Mass Destruction,” p. 12-13 of Congressional Research Service (CRS) Report for Congress. Order Code RL31861, “ <i>High-Threat Chemical Agents: Characteristics, Effects, and Policy Implications.</i> ” Updated September 9, 2003. Dana A. Shea, Analyst in Science and Technology Policy Resources, Science, and Industry Division (CRS, The Library of Congress).	✓	✓		
USACHPPM, 2008 . Technical Guide 244: The Medical CBRN Battlebook, Oct 2008.	✓	✓	✓	
DHS National Preparedness Guidelines , Sept. 2007	✓	✓	O	
Hazardous Substance Database , US National Library of Medicine	✓	✓	✓	
The Emergency Response Safety and Health Database , NIOSH	✓	✓	✓	
EPA: Water Security - Emergency/Incident Planning		✓	✓	
Agency for Toxic Substances and Disease Registry (ATSDR) . Train Derailment and Chemical Release in Graniteville, SC. January 2005		✓		
Health Protection Agency, Medical Toxicology Unit, Chemical Incident Report.	✓			
Bhopal Information Center (last accessed October 2011)			✓	
The Bhopal disaster and its aftermath: a review (last accessed October 2011)			✓	
Health Effects and Personnel Safety				
National Research Council/Committee on Toxicology . 2003. <i>Acute Exposure Guidelines for Selected Airborne Chemicals, Vol 3</i> . National Academy Press, Washington, DC.			✓	
National Research Council/Committee on Toxicology . 2004. <i>Acute Exposure Guidelines for Selected Airborne Chemicals, Vol 4</i> . National Academy Press, Washington, DC.		✓		
The Emergency Response Safety and Health Database , NIOSH (last accessed August 2011)	✓	✓	✓	
CDC Emergency Preparedness and Response website and associated fact sheets for agents (last accessed August 2011)	✓	✓	✓	
Agency for Toxic Substances and Disease Registry (ATSDR) . 2010. <i>Toxicological Profile for Chlorine</i> . Department of Health and Human Services, Public Health Service, ATSDR, Atlanta, GA.		✓		
Agency for Toxic Substances Disease Registry (2011), Medical Management Guidelines for Methylisocyanate			✓	
Effect Levels				
AIRBORNE (INHALATION, OCULAR AND PERCUTANEOUS PATHWAYS)				
National Research Council/Committee on Toxicology . 2003. <i>Acute Exposure Guidelines for Selected Airborne Chemicals, Vol 3</i> . National Academy Press, Washington, DC.			✓	
National Research Council/Committee on Toxicology . 2004. <i>Acute Exposure Guidelines for Selected Airborne Chemicals, Vol 4</i> . National Academy Press, Washington, DC.		✓		

Reference Documents	General	Chlorine	MIC	Phosgene
CDC-NIOSH (2011) Pocket Guide to Chemical Hazards - Methylisocyanate				
Chemical Hazards Emergency Medical Management (CHEMM) , National Library of Medicine, Includes links to WISER (last accessed August 2011)	✓	✓	✓	
Medical Management Guidelines, ATSDR (last accessed August 2011)	✓	✓	✓	
EPA (2011) Acute Exposure Guideline Levels		✓	✓	
SOIL:				
Regional Screening Levels, http://www.epa.gov/region09/superfund/prg/		✓	✓	
EPA (2011) Regional Screening Levels - MIC			✓	
WATER:				
Regional Screening Levels, http://www.epa.gov/region09/superfund/prg/National Academy Press, Washington, DC.		✓	✓	
CHRONIC TOXICITY VALUES				
Field Detection				
USEPA 2010 , Field Screening Equipment Information Document – Companion to Standardized Analytical Methods for Environmental Restoration Following Homeland Security Events (SAM), Revision 5.0. Office of Research and Development, National Homeland Security Research Center. September 2010.		✓	0	✓
Technology Evaluation Report : Testing of Screening Technologies for Detection of Chemical Warfare Agents in All Hazards Receipt Facilities. Kelly et al, EPA/600/R-07/104, 2007.		✓	✓	
Sampling				
SAM Companion Documents and Sample Collection Procedures (last accessed August 2011)	✓	✓	✓	✓
Environmental Response Laboratory Network (last accessed August 2011)	✓	✓	✓	✓
Laboratory Analysis				
EPA: Standardized Analytical Methods (SAM) (last accessed August 2011)	✓	✓	✓	✓
Environmental Response Laboratory Network (last accessed August 2011)	✓	✓	✓	✓
Integrated Consortium of Laboratory Networks (ICLN) (last accessed August 2011)	✓	✓	✓	✓
Decontamination and Cleanup				
FEMA, USFA-TR-052/May 1991, Massive Leak of Liquefied Chlorine Gas: Henderson, Nevada (last accessed September 2011)		✓		
Wastewater Technology Fact Sheet: Dechlorination (last accessed September 2011)		✓		
Using Vitamin C To Neutralize Chlorine in Water Systems (last accessed September 2011)		✓		
Methyl isocyanate (last accessed October 2011)			✓	
Phosgene (last accessed May 2012)				✓
Sittig's Handbook of Toxic and Hazardous Chemicals and Carcinogens; 6 th edition, page 2138				✓
Waste Disposal				
References in Document Responses	✓	✓	✓	✓