

INFORMATION SOURCE MATRIX --- Listing of useful online information sources on chemicals, along with the type of information offered.

This directory is intended to provide users with a ready-to-go list of information sources offering chemical-specific data that could be needed in an emergency. It is not intended to be an exhaustive list of Internet sites containing information specific to chemicals.

Chemical-specific sites include both toxic industrial chemicals (TICs) and weapons of mass destruction (WMD) chemicals

Site	URL	Summary	Toxicology	Exposure Guidelines & Standards	Chem / Phys Properties	Environmental Fate / Transport	Emergency Response	PPE	Decon	Acute hazards, signs, symptoms	First aid / Emergency Treatment	Med Trtmt Guides - Health Profs	Public FAQs	Other languages	Planning & Preparedness
I. Emergency Response															
I.A Critical Phone Numbers															
American Association of Poison Control Centers	http://www.aapcc.org/	1-800-222-1222 phone number connects anyone in the US to their local poison center									X	X			
Chemical Transportation Emergency Center (CHEMTREC and MEDTREC)	http://www.chemtrec.org/Chemtrec/Resources/	CHEMTREC® is part of the American Chemistry Council and maintains a 24/7 public service hotline for emergency responders: 1-800-424-9300 . 24/7 medical advice available (Medtrec).					X					X		X	
National Response Center	http://www.nrc.uscg.mil/	The National Response Center is the sole federal point of contact for reporting oil and chemical spills: 1-800-424-8802 . This is also the hotline for chemical / biological WMD incidents.					X								X
I.B First Responder Databases															
2004 Emergency Response Guidebook	http://hazmat.dot.gov/pubs/erg/guidebook.htm	Contains emergency response protocols for specific chemicals and chemical classes including fire & explosion hazards, evacuation perimeters, and first aid.			X		X	X			X				X
Coast Guard CHRIS manual	http://www.chrismanual.com/	First responder database. Searchable by chemical name, color, odor, physical state, behavior in water.		X	X		X	X		X	X				

First Responders website - WMDFR.com	http://www.wmdfirstresponders.com/Index.htm	WMD links for quick access and review by first responders. Contains links to 23 organizations and much other related material.		X	X		X	X		X	X				
Internet Resources for MSDSs	http://www.ilpi.com/msds/index.html#Internet	Contains links to access over 8,000,00 Material Safety Data Sheets (MSDSs).		X	X		X	X		X	X				
MSDS-Vermont SIRI Index.	http://hazard.com/msds/index.php	Online searchable database offers MSDS information as well as toxicology reports.		X	X		X	X		X	X				
NIOSH "Pocket Guide to Chemical Hazards"	http://www.cdc.gov/niosh/npg/	Condensed general industrial hygiene information on several hundred chemicals/classes. Does not include CWAs.		X	X		X	X		X	X				
NOAA / EPA - CAMEO databse	http://response.restoration.noaa.gov/cameo/cameo.html	First responder database - includes chemical ID and properties, fire fighting information, health hazards, PPE, first aid. Note: Download database.		X	X		X	X	X	X	X				
NIOSH "Emergency Response Resources"	http://www.cdc.gov/niosh/topics/emres/	Links to dozens of emergency response resources and chemical information.		X	X		X	X	X	X	X				
NIOSH "International Chemical Safety Cards" & WHO/ International Program on Chemical Safety	http://www.cdc.gov/niosh/ipcs/nicstart.html	First responder information for 1,600 different industrial chemicals; 16 languages; Does not include CWAs.	X abbreviated	X	X		X	X	X	X	X			X	
OSHA - Emergency Resposne	http://www.osha.gov/SLTC/emergencyresponse/index.html	OSHA resources for workplace emergencies. Covers first and second response, decontamination and detection equipment for CWA incidents, and other useful topics.					X	X				X			X
US Army WMD field manuals	http://www.globalsecurity.org/wmd/library/policy/army/fm/	One stop site for Army field manuals on chemical, nuclear, and biological warfare agents.	X	X	X	X	X	X	X	X	X	X			X
WISER	http://wiser.nlm.nih.gov/	Wireless information system. Information includes substance ID & properties, human health, and containment and suppression. Searchable by health symptom. Download database.			X		X			X	X				

I.C Decontamination

DOJ fact sheet, Mass casualty decontamination	http://www.ojp.usdoj.gov/odp/library/./docs/fs-decon.htm	Massachusetts' fact sheet with equipment list						X		X												X
NIJ Guide for the selection of chemical and biological decontamination equipment	http://www.ncjrs.org/pdffiles1/nij/189724.pdf	NIJ guide 103-00, decontamination equipment for first responders						X		X												X
US Army "Guidelines for mass casualty decontamination"	http://www.au.af.mil/au/awc/awcqate/army/sbc.com_decon.pdf	First responder guidelines for mass casualty decontamination during a terrorist chemical incident						X		X												X
US Army "Guidelines for cold weather mass decontamination"	http://www.ecbc.army.mil/hld/cwirp/cwirp_cold_weather_mass_decon_download.htm	First responder guidelines for mass casualty decontamination during a terrorist chemical incident						X		X												X
I.D Emergency Exposure Guidelines																						
EPA Acute Exposure Guidelines (AEGs)	http://www.epa.gov/oppt/aeq/pubs/chemlist.htm	EPA / National Academy of Sciences exposure guidelines for general public, including sensitive populations, for 3 categories of exposures for up to 8 hours	X	X	X			X												X		X
EPA Acute Exposure Guidelines (AEGs) - German site	http://www.umweltbundesamt.de/anlagen/AEG	German site for AEGL values (in English); has links to other values	X	X	X			X												X		X
NIOSH Immediately Dangerous to Health and Life (IDLH)	http://www.cdc.gov/niosh/idlh/idlh-1.html	Documentation for IDLH values found in the NIOSH PocketGuide and are values designed for escape use.	X	X	X			X	X											X		X
TEELs and ERPGs	http://www.eh.doe.gov/chem_safety/teel.html	Department of Energy Temporary Emergency Exposure Limits (TEELs) and Emergency Response Planning Guidelines (ERPGs) and EPA Acute Exposure Guidelines (AEGs)			X			X														
I.E Field Detection																						
DOJ Field Detection Equipment Guide	http://www.ncjrs.org/pdffiles1/nij/184449.pdf	Dept. of Justice "Guide for the Selection of Chemical Agent and Toxic Industrial Material Detection Equipment for Emergency First Responders"						X														X
NIOSH Manual of analytic methods	http://www.cdc.gov/niosh/nmam/	Industrial Hygiene sampling and analysis methods.						X														X

OSHA - Emergency Response - Blister Agents	http://www.osha.gov/SLTC/emergencypreparedness/guides/blister.html	Field detection methods among other information	X	X			X	X		X									X
OSHA - Emergency Response - Nerve Agents	http://www.osha.gov/SLTC/emergencypreparedness/guides/nerve.html	Field detection methods among other information	X	X			X	X		X									X
OSHA - Emergency Response - TICs	http://www.osha.gov/SLTC/emergencypreparedness/guides/chemical.html	Toxic industrial chemicals - Field detection methods among other information	X	X			X	X		X									X
SEI Certified Product List	http://www.seinet.org/CPL/contents.htm	gas detector tubes and protective clothing					X	X											X
"Suspicious Envelopes, Packages: Screening Checklist for First Responders"	http://www.doh.wa.gov/phepr/pheprlho.htm	Washington State website also contains multiple links related to public health preparedness and terrorism.					X												X

I.F Personal Protective Equipment

3M Respirator Selection Guide	http://solutions.3m.com/wps/portal/!ut/p/kcxm/04_Sj9SPvkssv0xPLMnMz0vM0Q9KzYt3d9KPOI8yizeINwwL0i_lcFQEADq370w!	Online guide provides information on designated 3M products that may be suitable when using 3M Negative Pressure respirators for nearly 700 chemicals.					X	X											X
DuPont™ SafeSPEC™	http://www2.dupont.com/Personal_Protection/en_US/	Click on SafeSpec under 'helpful links' on the righthand side of the web page. Software downloadable to the desktop for PPE selection. Online chemical hazard assessment.					X	X											X
NIOSH Personal Protective Equipment	http://www.cdc.gov/niosh/nppt/	Respirator, protective clothing selection; other guidance for first responders					X	X											X

II. Technical Support

II.A Chemical Fact Sheets

CDC Chemical Agents	http://www.bt.cdc.gov/agent/agentlistchem.asp	CDC's list of over 75 toxic industrial chemicals and WMDs. Links to ATSDR & NIOSH fact sheets. <i>Probably the single-most useful resource in terms of links to all needed information sources.</i>	X abbreviated	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X
CDC - ATSDR "Public Health Statements"	http://www.atsdr.cdc.gov/phshome.html	Summary from ATSDR Toxicological Profiles	X abbreviated	X		X											X	X	

CDC - ATSDR "ToxFAQs"	http://www.atsdr.cdc.gov/toxfaq.html	Approximately 250 chemicals, excerpted from the ATSDR Tox Profiles, as FAQs. Additional chemicals, not on tox profiles list, include several chemical warfare agents. Note: not written for the general public audience.	X abbreviated	X		X									X	X
EPA "Chemicals in the Environment"	http://www.epa.gov/chemfact/	Office of Pollution Prevention & Toxics chemical fact sheets (30+) and summary support docs	X abbreviated	X	X	X									X	
New Jersey "Right to Know" Fact Sheets	http://www.state.nj.us/health/eoh/rtkweb/rtkhsfs.htm	Public fact sheets for nearly 2,000 industrial chemicals, including some CWAs.	X abbreviated	X	X		X	X	X	X	X					X
NPIC Pesticide fact sheets	http://npic.orst.edu/npicfact.htm	National Pesticide Information Center public and technical fact sheets on 30+ pesticides	X abbreviated			X				X					X	
US Army "Center for Health Promotion & Preventive Medicine"	http://chppm-www.apgea.army.mil/hrarcpc/CAW/	Includes both detailed and general chemical fact sheets for 24 of the most common CWAs Go to URL and click on "documents available online".	X abbreviated	X	X			X		X	X					

II.B. Chemistry & Toxicology

II.B.1 Chemistry

ChemExper Chemical Directory	http://www.chemexper.com/	Try this site if ChemFinder, ChemIDPlus don't give you what you're looking for.				X										
ChemFinder	http://chemfinder.cambridgesoft.com/	Searchable database - chemical-physical properties of thousands of chemicals as well as links to MSDS data, regulatory, & tox information.				X										
ChemIDPlus	http://chem.sis.nlm.nih.gov/chemidplus	National Library of Medicine chemical identification database. Links to tox and other info on NLM databases.				X										
Chemical Ingredients (Pesticides) Database	http://ppis.ceris.purdue.edu/htbin/epachem.com	EPA database. Gives information on active ingredients in pesticide formulations and lists manufacturers.				X		X								
Chemical Reactivity Worksheet	http://response.restoration.noaa.gov/chemicals/react.html	National Oceanic and Atmospheric Administration (NOAA) tool for assessing reactivity (fire, explosion) of chemical mixtures (download dbase).				X		X								

European Chemical Substances Information System	http://ecb.jrc.it/esis/	Includes EUCLID, EINICS, HVPC etc information			X														
II.B.2 Toxicology																			
ARS Pesticide Properties Database	http://www.ars.usda.gov/Services/docs.htm?docid=6433	By USDA Agricultural Research Service. Chem/phys properties of over 300 widely used pesticides. Information focuses on properties that affect pesticide transport and degradation characteristics			X	X													
ATSDR Toxicological Profiles	http://www.atsdr.cdc.gov/toxpro2.html	261 listed hazardous substances found at National Priorities List sites. Lengthy profiles with complete literature review. Does not include most CWAs.	X	X	X	X												X	
EPA Exposure Assessment Tools and Models	http://www.epa.gov/opptintr/exposure/index.htm	Databases and predictive models to estimate environmental fate and human exposure potential; includes EPI Suite (formerly EPIWIN)			X	X													
EXTOXNET (pesticides)	http://extoxnet.orst.edu/ghindex.html	Cooperative effort of several universities. Houses information profiles for roughly 200 different pesticides.	X	X	X	X							X						
EPA Integrated Risk Information System (IRIS)	http://www.epa.gov/iris	A database of human health effects for hundreds of common industrial chemicals. Addresses chronic health hazards only. Oral and inhalation reference values.	X	X	X														
FDA Poisonous Plant Database	http://www.cfsan.fda.gov/~djw/plantox.html	Database contains references to the scientific literature describing studies of the toxic properties and effects of plants and plant parts. Records are displayed in list format	X		X								X						
National Library of Medicine Databases	http://www.sis.nlm.nih.gov/sisfactsheets.html	Gateway to multiple dbases within NLM	X	X	X	X	X						X	X	X	X			X
NIOSH Databases (general)	http://www.cdc.gov/niosh/database.html	Link to NIOSH databases and other resources	X	X	X		X	X					X	X					
OECD SIDS - Co-operation on the Investigation of Existing Chemicals	http://www.oecd.org/document/63/0,2340,en_2649_34379_1897983_1_1_1_1,00.html	International chemical hazard and risk assessment site	X	X	X	X	X						X	X	X	X			X

RMIS - Risk Management Internet Services (chemical databases collection)	http://www.rmis.com/db/dbchemicals.htm	Collection of numerous databases where chemical information is available	X	X	X	X	X			X	X	X	X		X
SRC Environmental Fate database	http://www.syrres.com/esc/efdb.htm	Syracuse Research Corp. environmental fate database includes information on biodegradation, chemical fate and properties			X	X									
TOXNET	http://toxnet.nlm.nih.gov/	A cluster of NLM databases on toxicology & hazardous chemicals. Includes the highly useful HSDB (Hazardous Substances Database) .	X	X	X					X	X				
TOXSEEK	http://toxseek.nlm.nih.gov/toxseek/ui8/search/r.jsp?selectedcategory=Allcat	A toxicology search engine by NLM. Searches multiple gov't & other sites. Tip: Don't use Boolean search terms; these won't work on some of the sites.	X	X	X	X	X			X	X	X	X		X
II.C Clinical / Medical															
American College of Physicians/American Society of Internal Medicine	http://www.acponline.org/bioterro/index.html	Clinical terrorism resources. Palm Downloads for various illnesses: http://www.acponline.org/pda/bioterrorism.htm	X abbreviated							X	X	X			
American Hospital Association Disaster Readiness	http://www.hospitalconnect.com/aha/key_issues/disaster_readiness/index.html	Multiple resources for hospital preparedness; Click on the 'resource' tab for clinical guidance. Info on bt and cw agents included.	X abbreviated							X	X	X			X
ATSDR Managing Hazardous Materials Incidents	http://www.atsdr.cdc.gov/MHMI/	Prehospital and hospital medical management of patients exposed during a hazardous materials incident. Guidelines for over 50 chemicals, including many CWAs.	X abbreviated	X	X		X	X	X	X	X	X	(includes patient information sheets)		X
CDC WMD emergency room procedures	http://www.cdc.gov/nceh/demil/articles/initialtreat.htm	Emergency room procedures in chemical hazard emergencies - a job aid (includes chemical warfare agents)								X	X	X			
eMedicine "Emergency Medicine NBC"	http://www.emedicine.com/emerg/WARFARE_CHEMICAL_BIOLOGICAL_RADIOLOGICAL_NUCLEAR_AND_EXPLOSIVES.htm	Commercial site used by many ED physicians for health effects information. Warfare link contains information on 44 chemical, biological, nuclear, and explosive related topics	X							X	X	X			
EPA "Extremely hazardous substances (EHS) chemical profiles & emergency first aid guides"	http://yosemite.epa.gov/oswer/ceppoehs.nsf/EHS_Profile?openform	First aid and physical property information			X		X				X				

Family Practice Medicine Notebook	http://www.fpnotebook.com/ER.htm	Emergency medicine, poisoning and toxicology references	X								X	X	X			
IPCS INTOX	http://www.intox.org/databank/index.htm	Poison information and medical treatment guidelines	X								X	X	X			
Medical Tests for OSHA-Regulated Substances	http://www.cdc.gov/niosh/nmed/nmedname.html	Specific medical tests or examinations published in the literature for OSHA-regulated substances. Indexed by chemical name. NIOSH website.											X			
Mental Health Emergency Information	http://www.mentalhealth.org/cmhs/EmergencyServices/index.htm	Emergency mental health and traumatic stress resources; link to Disaster Technical Assistance Center for behavioral health "all hazards" disaster planning						X								X
Mental Health Field Manual	http://www.mentalhealth.org/publications/allpubs/ADM90-537/index.htm	For mental health and human service workers in major disasters. National Mental Health Information Center website contains multiple mental health resources and publications.						X								X
Veterans Administration Clinical Guides, "Biological, Chemical, and Radiation Induced Illnesses"	http://www.oqp.med.va.gov/cpq/BCR/BCR_Base.htm#	Pocket card clinical guides for treatment of biological, chemical, and rad. exposures					X		X	X	X	X	X			
Virtual Naval Hospital	http://www.vnh.org/	Medical treatment information for chemical, nuclear, and biological warfare agents	X		X		X	X	X	X	X	X	X			
II.D Laboratory																
CDC Laboratory Information	http://www.bt.cdc.gov/labissues/	Testing / presumptive agent ID, sample collection / shipping, training, LRN			X		X									
EPA Environmental test methods	http://www.epa.gov/Standards.html	Methods include general, air, pesticides and toxic substances, solid waste, and water.			X		X									
NIOSH Manual of analytic methods	http://www.cdc.gov/niosh/nmam	Methods for sampling and analysis of contaminants in air, and in the blood and urine for occupational exposures			X		X									
NIOSH Medical tests for OSHA substances	http://www.cdc.gov/niosh/nmed/medstart.html	Specific medical tests published in the literature for OSHA regulated substances			X		X						X			
OSHA chemical sampling methods	http://www.osha.gov/dts/chemicalsampling/toc_chemsamp.html	Searchable database for chemical sampling in occupational environments			X		X									
II.E Preparedness / Hazard Assessment																

Chemical Incidents (News) Reports Center	http://www.csb.gov/circ/	News reports updated daily. US Chemical Safety and Hazard Investigation Board site. Investigation reports at their main URL: http://www.csb.gov/ .																		X
Chemical Producers - geographically and by chemical	http://www.thomasnet.com/nsearch.html	Go to URL and type in 'chemicals' in the Search for box. This brings you to the page where you can refine your search by specific chemical and geographic area																		X
Disaster Reports (Int'l)	http://www.uneptie.org/pc/apell/disasters/disasters.html	United Nations Environment Program, APELL - Awareness & Preparedness for Emergencies on a Local Level.																		X
EPA Risk Management Program	http://yosemite.epa.gov/oswer/ceppoweb.nsf/content/rmp_review.htm	Database of facilities using extremely hazardous substances available by agency request. Call the RMP Reporting Center for more info: 1-301-429-5018.																		X
Shelter-in-Place Guidance	http://securebuildings.lbl.gov/	Lawrence Berkeley National Laboratory advice for shelter-in-place and building vulnerability assessment.																X		X

II.F. Public & Community Resources

American Red Cross, Public information for chemical emergencies	http://www.redcross.org/services/disaster/0_1082_0_581_00.html	Public information guides to various types of chemical emergencies						X											X		X
CDC Chemical Emergencies	http://www.bt.cdc.gov/chemical/	General and chemical-specific info for public and professionals. Includes facts about personal cleaning and disposal of chemically-contaminated clothing.	X (abbreviated)	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
CDC Evacuation Guidance	http://www.bt.cdc.gov/planning/evacuationfacts.asp	Information for the general public.						X											X	X	X
CDC Shelter-in-Place Guidance	http://www.bt.cdc.gov/planning/shelteringfacts.asp	Information for the general public.						X											X	X	X
Department of Homeland Security "Ready.gov"	http://www.ready.gov	The official readiness and awareness site of the US Government. Includes generalized information for the public on preparedness, health hazards, and sheltering.						X											X	X	X
Disabilities, "Disaster Preparedness for People with Disabilities"	http://www.disabilityresources.org/DISASTER.html	Public information sites; Also see http://www.jik.com/disaster.html						X											X		X
Disaster Handbook	http://disaster.ifas.ufl.edu/	Univ. of Florida. Covers a wide range of disasters. Includes home and farm recovery						X											X		X

Mental Health - "OVC Handbook for Coping after Terrorism: A Guide to Healing and Recovery"	http://www.ojp.usdoj.gov/ovc/publications/information/cat_hndbk/welcome.html	Office for Victims of Crime, Dept of Justice.							X										X	X
Personal Protection & Chemical or Biological Terrorism, Frequently Asked Questions	http://www.stimson.org/cwc/persprot.htm	Henry L. Stimson Center, Chemical and Biological Weapons Nonproliferation Project - Chem/Bio FAQs							X	X									X	X
II.G. Veterinary, Pets																				
American Academy on Veterinary Disaster Medicine	http://www.cvms.colostate.edu/clinsci/wing/avdm/aavdm.htm	Consulting services; resource links																		X
Pets, American Red Cross, Disaster Preparedness Info for Pet owners	http://www.redcross-cmd.org/Chapter/Services/animal.html	Disaster preparedness for pet owners																	X	X
Pets, livestock - disaster preparedness	http://www.avma.org/disaster/responseguide/responseguide_toc.asp	American Veterinary Medical Association - Disasters																	X	X
II.H. WMD, additional references																				
Center for Nonproliferation Studies - Chemical and Biological Weapons	http://cns.miis.edu/research/cbw/index.htm	International chemical and biological weapons perspective																		X
Henry L. Stimson Center	http://www.stimson.org/cbw/?sn=CB2001121890	Chemical weapons issues																		X
WMD web sites (list of lists)	http://www.chem-bio.com/links/index.html	Rhode Island listing of URLs and information related to WMDs, in alphabetical order.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WMD web sites (list of lists)	http://www.ridiproject.org/downloads/annotated_bibliography.pdf	RIDI listing of URLs and information related to WMDs, in alphabetical order	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X