

# Chemical Release Investigation Kit & Template (CRIKT) For Local Health Departments



CHEMICAL	TRADE NAME(S)
Arsenic	Arsenic metal, Arsenia
<b>PREPARING FOR THE INVESTIGATION</b>	
<b>Know the Agent</b>	<ul style="list-style-type: none"> <li>• Arsenic is a white or colorless powder.               <ul style="list-style-type: none"> <li>○ Read about arsenic in the Arsenic Fact Sheet.</li> <li>○ For additional information, visit: <a href="http://www.atsdr.cdc.gov/sites/toxzine/arsenic_toxzine.html">www.atsdr.cdc.gov/sites/toxzine/arsenic_toxzine.html</a></li> </ul> </li> <li>• Contact:               <ul style="list-style-type: none"> <li>○ Public Health Preparedness &amp; Response Branch (PHP&amp;R): 888.820.0520.</li> <li>○ N.C. Emergency Management Desk: 1.800.858.0368. If appropriate, contact local Emergency Management.</li> </ul> </li> <li>• Print and review form:               <ul style="list-style-type: none"> <li>○ Chemically Exposed Persons Line Listing.</li> </ul> </li> </ul>
<b>CONDUCTING THE INVESTIGATION</b>	
<b>Evaluate Release &amp; Exposure</b>	<ul style="list-style-type: none"> <li>• Define scale, scope of release, and exposure (work with N.C. Emergency Management, HazMat, an Environmental Health Specialist at the local or state level, N.C. Department of Environment and Natural Resources [N.C. DENR], and U.S. Environmental Protection Agency [U.S. EPA] if applicable).</li> </ul>
<b>Identify Route of Human Chemical Exposure</b>	<ul style="list-style-type: none"> <li>• Identify route of exposure:               <ul style="list-style-type: none"> <li>○ Inhalation</li> <li>○ Ingestion</li> <li>○ Dermal (Skin)</li> <li>○ Injection</li> </ul> </li> <li>• Interview responders and exposed</li> </ul>

	<p>individuals to obtain additional information about the arsenic exposure within 24-hours.</p>
<p><b>Describe Exposed Population</b></p>	<ul style="list-style-type: none"> <li>• Determine the following: <ul style="list-style-type: none"> <li>○ Geographic area affected.</li> <li>○ Population affected (general population, employees, and residents).</li> <li>○ How population exposed (in vicinity, inhalation, or direct contact).</li> <li>○ Define cases within the exposed population.</li> <li>○ Contact OEEB (919.707.5900) to assist in developing a risk assessment to be shared with officials.</li> <li>○ Once completed, provide OEEB with the Chemically Exposed Persons Line Listing.</li> </ul> </li> </ul>
<p><b>Implement Control Measures to Prevent Additional Exposures</b></p>	<ul style="list-style-type: none"> <li>• Decide on measures to protect citizens and the surrounding communities.</li> <li>• The environmental health specialist should consult with OEEB to discuss next steps to ensure no additional individuals are exposed.</li> <li>• Inform residents and businesses of the arsenic exposure through local emergency notification system, local TV and radio. <p>Important points to include:</p> <ul style="list-style-type: none"> <li>○ Location of release and exposure.</li> <li>○ Geographic area affected.</li> <li>○ Shelter-in-place instructions.</li> <li>○ Where to evacuate if needed.</li> <li>○ Where to find shelter.</li> <li>○ Where to seek medical care.</li> <li>○ For more information, please listen to your local radio station or watch your local news channel.</li> </ul> </li> <li>• Work with your local incident management team and local health director to determine steps to be taken to re-enter residences and businesses. <ul style="list-style-type: none"> <li>○ The local incident management</li> </ul> </li> </ul>

	<p>team will determine when residences and businesses are acceptable for re-entry and alert the local health director, who will then participate in the final decision.</p> <ul style="list-style-type: none"> <li>○ Your local health director will then communicate with the on-scene coordinator.</li> <li>○ The on-scene coordinator will then communicate to the community when they are permitted to return home or to their place of employment.</li> </ul>
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**INVESTIGATION RESULTS**

<p style="text-align: right;"><b>Case Finding</b></p>	<ul style="list-style-type: none"> <li>● During the course of the investigation, interview other exposed individuals for symptoms related to the arsenic exposure. <ul style="list-style-type: none"> <li>○ Work with your local medical facilities, local incident management team and the first responders to compile the exposed persons' information.</li> <li>○ Contact local hospitals to determine total number injured, hospitalized, ED visits, and deceased.</li> <li>○ Contact N.C. DETECT, North Carolina's state syndromic surveillance system for additional information: 919.843.2361.</li> </ul> </li> <li>● Advise symptomatic individuals, especially children, to see their healthcare provider immediately for evaluation.</li> </ul>
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<p style="text-align: right;"><b>Routine Precautions</b></p>	<ul style="list-style-type: none"> <li>● Communicate the following control measures with residents and business owners. <ul style="list-style-type: none"> <li>○ Wash hands thoroughly with soap and water.</li> </ul> </li> </ul>
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**SPECIAL CONSIDERATIONS**

<p style="text-align: right;"><b>Risk Communication</b></p>	<ul style="list-style-type: none"> <li>● N.C. DHHS Communications Office 919.855.4840 is available to assist local health departments as needed.</li> </ul>
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**ADDITIONAL INFORMATION**

**Glossary of Terms**

**ATSDR:** Agency for Toxic Substances & Disease Registry

**DENR:** Department of Environment and Natural Resources

**ED:** Emergency Department

**EHS:** Environmental Health Specialist

**EPA:** Environmental Protection Agency

**OEEB:** Occupational and Environmental Epidemiology Branch

**PHP&R:** Public Health Preparedness & Response

