

# JOB SAFETY ANALYSIS

Safety Information for the University of California, Berkeley

## ENVIRONMENT, HEALTH & SAFETY – CHEMICAL WASTE SAMPLING OF UNKNOWN MATERIALS

TASK	HAZARDS	CONTROLS
1. Open the container of unknown material.	Physical injury to hands or arms (strains, cuts, pinches).	Wear proper protective clothing (see procedure for sampling of unknown materials).  Do not force seized containers open.  Do not open containers suspected to be under pressure.
	Injury from chemical reaction (explosions, burns, corrosives).	Wear proper protective clothing identified below.  Examine container carefully for warning signs (labels, bulging, corrosion, crystallization).  Do not open containers suspected to be reactive, explosive, or unstable. See “Handling Potentially Explosive Chemicals” JSA.  Perform procedure in a fume hood and behind window sash whenever possible. Perform behind a plexiglass shield when a hood is not available.  Avoid holding container close to body.  Steady container on ground or bench top.

		Skin contamination.	Wear proper protective clothing. Change gloves after each sample. Properly containerize all contaminated materials. Do not open containers suspected to be radioactive.
		Hazardous vapor inhalation.	Perform procedure in a hood whenever possible. Wear respiratory protection (as outlined in PPE section) when a hood is not available. Keep container open only long enough to obtain a sample.
	2. Carefully obtain a sample.	Injury from reactive materials (explosions, burns, corrosives).	Wear proper protective clothing (as outlined in PPE section). Avoid cross contamination by using clean sampling equipment.
		Skin contamination.	Wear proper protective clothing. Change gloves after each sample. Properly containerize all contaminated materials.
	3. Close the container.	Physical injury to hands or arms (strains, cuts, pinches).	Wear proper protective clothing. Do not force containers closed.
		<b>Required Training:</b> 1. Familiarization with "Handling Potentially Explosive Chemicals" JSA. 2. Familiarized with the Unknown Sampling Procedure. 3. Respiratory protection training and fit test.	<b>Required Personal Protective Equipment (PPE):</b> Steel-toed boots, lab coat or tyvek suit, goggles and face shield or safety glasses and hood sash, nitrile gloves, 1/2 face respirator w/OVAH cartridges (if hood unavailable), SCBA (if ventilation cannot be controlled).
<b>Other Information:</b> <b>Contributors:</b> <b>Created:</b> <b>JSA Library Number:</b>	See "Handling Potentially Explosive Chemicals" JSA Environment, Health & Safety June 2005 EHS-1HM-1  For more information about this JSA, contact the <i>Office of Environment, Health and Safety</i> at UC Berkeley, 317 University Hall #1150, Berkeley, CA 94720-1150 (510) 642-3073 • <a href="http://www.ehs.berkeley.edu">http://www.ehs.berkeley.edu</a>		