

**bert gonzalez**

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**Sent:** Monday, October 15, 2007 10:06 AM  
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**HAZARD ANALYSIS**

**Work Plan Title:** Beryllium Cleaning      **Date:** 10/11/07

**Prepared By:** Lauren Jones

**Reviewed By:(optional) Bert Gonzalez**

**Approved By:** \_\_\_\_\_  
 Supervisor/Task Manager

**Description of work:**

**Procedure for cleaning Beryllium pieces**

**Personal Protective Equipment:** (Check protective equipment required for the job.)

- Safety glasses     Side shields                       Chemical splash goggles
- Hearing Protection                       Hard Hats
- 3.0 Braising goggles                       Impact goggles
- Face shield                       Rubber apron
- Leather gloves                       Hot/Cold thermal protective gloves
- Chemical resistant gloves (specify type):                       Respirators
- Other required PPE (specify): Face Masks                       Fall protection equipment (specify):

**Equipment required for the job:** (List the tools needed to perform the job.)

1. Beryllium Training
  2. Safety Glasses
  3. (2) Large glass or plastic beakers
  4. Ethyl alcohol (200 proof)
  5. (Childs) Soft toothbrushes
  6. Kimwipes
  7. Face masks
  8. Latex gloves
  9. Ziplock baggies: size of beryllium pieces
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## HAZARD ANALYSIS

Step	Description	Hazards	Precautions / Safety Procedures
1	Fill beakers ½ full with Ethyl Alcohol	Could splash into eyes or mouth Emits fumes	Wear: Safety glasses Face masks Latex gloves
2	Submerge Beryllium pieces briefly in alcohol	Could break sending beryllium dust airborne	Careful: Motion upward and downward Wear: Safety glasses Face masks Latex gloves
3	Take toothbrush and softly brush holes and edges of beryllium	Splashes	Wear: Safety glasses Face masks Latex gloves Stroke downward to direct splash into beaker
4	Re-submerge pieces up and down several times in 2 <sup>nd</sup> beaker of clean alcohol	Could break	Wear: Safety glasses Face masks Latex gloves
5	Lay on kimwipes to dry	Careful, could break sending beryllium particles in air	Handle carefully Not to bump or ding beryllium when set down
6	When dry, put into baggies and label.	Careful, could break sending beryllium particles in air	Handle with extreme caution not bumping or dropping
7	Dispose of Ethyl Alcohol	Ethyl alcohol w/ trace of beryllium	Empty into ethyl alcohol bottle labeled: Used ethyl alcohol w/ trace of beryllium
8	Dispose of : Face Masks Latex gloves Kimwipes toothbrushes	Contain traces of beryllium	Dispose of in Special Waste receptacles
9	Clean beakers with clean ethyl alcohol and kimwipes	Contain traces of beryllium	Dispose: Used ethyl alcohol /w trace of beryllium &  Special Waste container
10	Dispose of: Special Waste		Contact Safety Officer for disposal: Jose Delao #2557 Pager# 0246

