##### Kelly Lab SOP for Flammable Solvents Use

University of Washington

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| Standard Operating Procedures for Chemicals or Processes |
| #1 Process(if applicable) | **Flammable Solvents**- use and storage - including the following:\* |
| #2 Chemicals | Flammable solvent vapors can travel and can produce fire and explosion if an ignition source is contacted. Some flammable solvents are more hazardous than others. Many solvents also have an effect on the central nervous system and at high concentrations cause sedation, coma and death. Contact with solvents can de-fat skin and cause irritation of skin and mucous membranes. |
| #3 Personal Protective Equipment (PPE) | Wear chemical splash goggles, consult Appendix C for proper glove selection. Call EH&S (3-7388) for further information. A lab coat or apron is recommended for personal protection and is required when dispensing or cleaning up spill quantities greater than 1 liter. |
| #4 Environmental /Ventilation Controls | Solvents should be dispensed only in a fume hood or in a well-ventilated space which has been approved and permitted by the Seattle Fire Department.  |
| #5 Special Handling Procedures & Storage Requirements | Mixing or dispensing should be done in a hood with all sources of ignition eliminated (hot plates, burners, etc.). Store in metal safety cans whenever possible. Solvents should be stored in appropriate flammable cabinets, separate from acids, bases, and oxidizers. Flammable cabinets located Rms H159 and H153\_. |
| #6 Spill and Accident Procedures | Remove all sources of ignition from the spill area if it is safe to do it. Small fires may be extinguished if it is safe and the operator is trained to use the fire extinguisher. Wipe down spill area with solvent absorbent pads. Solvent absorption pads are stored in \_Spill Kit in H159\_\_. |
| #7 Waste Disposal | Label with Hazardous Waste Label, accumulate according to requirements, and send in Chemical Collection Request or Routine Pickup request, both available online at <http://www.ehs.washington.edu/epowaste/chemwaste.shtm>. Do not evaporate flammable solvents in the fume hood. |
| #8 Special Precautions for Animal Use(if applicable) | \* |
| Particularly hazardoussubstance involved? |  YES: | Blocks #9 to #11 are Mandatory |
|  X NO: | Blocks #9 to #11 are Optional. |
| #9 Approval Required | N/A |
| #10 Decontamination | N/A |
| #11 Designated Area | N/A |
| Name: Title: |
| Signature: Date:  |

Environmental Health and Safety, Box 354400 \**to be filled in by PI or Supervisor*

Training Acknowledgement:

As the Principal Investigator, it is your responsibility to ensure that all individuals listed in this protocol is taught correct procedures for the safe handling of hazardous materials involved in this study. It is also your responsibility to assure that your personnel attend Lab Core Safety Training and other applicable safety training courses.

 Both PI and all persons associated with the protocol must sign the following acknowledgement:

 ***I have read, asked questions, and understand the hazards of and safe working procedures for the activity/materials described herein.***

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| PI Signature |  | **Date** |  |
| Other Personnel |  |  |  |
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