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Safety Staff

(*) For Safety Staff

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Date:
Staff:

Application Form of Experimental Samples and Chemicals at UVSOR (2013)

Dear Chemical Safety Committee at UVSOR

Applied Person: **Taro Bunshi**

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We report the list of experimental samples and chemicals used at the UVSOR facility.

Usage Type	a. Cooperative Work, b. Use of UVSOR, c. Internal Use, d. Nanotech Platform												
Title	The structures of liquid measured by STXM.												
Beamline	BL4U	Beamline Master	T. Ohigashi										
Exp. Period (After decision)	8/July/2013		–	12/July/2013									
Researcher (Affiliation)	Taro Bunshi (Example University)		Hanako Hikari (Example University)										
Name of Chemicals	Phase (Gas: Pressure)	Amount (Include Units)	REG IS TER ED	Hazardousness									
				NON E	FIR E	CON BUS TIB LE	EXP LOS ION	OXI DATION	ANT IPOS IC	ACI D	COR ROSION	POI SON	
G A S	Oxygen	3 atom, Metal	10 L, 1 piece			O	O	O					
	Cis-2-Buten	100 g, Metal	5 L, 2 pieces			O	O						
	Carbon dioxide	3 atom, Metal	10 L, 2 pieces		O								
	Carbon monoxide	3 atom, Metal	1 L, 1 piece										O
O T H E R S	Benzene	Liquid	500 ml			O	O						O
	Acetonitrile	Liquid	500 ml			O	O						
	Sulfuric acid	Liquid	500 ml								O	O	
	Potassium Permanganate	Solid	100 g						O				
	Sodium	Solid	10 g							O			

Remarks: It has a possibility to submit report for after-treatment of chemicals when you use hazardous chemicals.

Use of Experimental Samples and Chemicals at the UVSOR Facility

Chemical Safety Committee at UVSOR

1. Outline

When you have a plan to use experimental samples and chemicals at the UVSOR facility, it is necessary to submit the application form. The detail of the submission is described below.

1. Please send the application form to the office of International & Research Cooperation with other documents.
2. The corresponding researcher should display the copy of the application form on the white board set at the entrance of the storage ring room. It is also necessary to send the copy to the beamline master.
3. It has a possibility to submit a report for after-treatment of hazardous chemicals. We will inform you if the submission of the report is necessary. If you have any questions, please contact the safety staff at the UVSOR facility.
4. You should submit the application form regardless of use of experimental samples and chemicals.
5. If you modify the experimental plan after the submission, please submit the application form again to the beamline master.
6. In principle, you should take all the experimental samples and chemicals back from the UVSOR facility. If you have any problems to take back, please contact the beamline master.

2. Guidelines for filling the application form

Here are guidelines for filling the application form. If you have any questions, please contact the safety staff or the beamline master at the UVSOR facility.

1. Experimental period is filled when you visit the UVSOR facility. You will fill the names and affiliations of one or two researchers.
2. If you have no plan to use chemicals, please write "none" at the name of chemicals. The chemicals described below are excluded:
Nitrogen gas, rare gas, acetone, ethanol, sodium salicylate, and dry ice.
3. Please distinguish gas at atmospheric condition from other chemicals. When you describe a gaseous sample, please fill gas pressure (mass of samples when you use liquefied gas) and bottle type (metal, glass, etc.) in the item "Phase", and the capacity and number of the bottle in the item "Amount". When you describe other samples, please fill phase (liquid or solid) in the item "Phase", and the mass or capacity of samples in the item "Amount".
4. Please check the registered item, if you have already submitted the report for after-treatment of hazardous chemicals. It has a possibility to excuse you from the submission of the report of the after-treatment.
5. If the chemical has hazardousness, please mark "O" at the items.
6. "Explosion" means that a chemical explodes when it has a shock or heating.
7. "Oxidation" means that a chemical is easily oxidized by heating, compression, or addition of acid or alkali.
8. "Antiposic" means that a chemical generates heat, takes fire, or produces hazardous gas when it absorbs moisture or touches water.
9. "Acid" means that a chemical is strong acid of inorganic or organic compound.
10. "Corrosion" means that human skins and mucous membranes are strongly stimulated or broken when a chemical contacts.
11. "Poison" means that acceptable concentration of hazardousness is below 200 ppm or 200 mg/m³, or a fatal dose is below 300 mg. It includes all gaseous samples that are assigned as poison.
12. It is definitely prohibited to use radioactive substances and nuclear materials.