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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

Applicant: 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, <u>d. Nanotech Platform</u>												
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 Experimental Samples and Chemicals	Phase (Gas: Pressure)	Amount (Include Units)	REGISTERED	Hazardousness								
					NON E	FIRE	CONBU STIBL E	EXPL OSION	OXID ATION	ANTI POSIC	ACID	CORRO SION	POISON
GAS	Oxygen Cis-2-Buten Carbon dioxide Carbon monoxide	3 atom, Metal 100 g, Metal 3 atom, Metal 3 atom, Metal	10 L, 1 piece 5 L, 2 pieces 10 L, 2 pieces 1 L, 1 piece		O	O O	O O	O O					O
OTHERS	Benzene Acetonitrile Sulfuric acid Potassium Permanganate Sodium	Liquid Liquid Liquid Solid Solid	500 ml 500 ml 500 ml 100 g 10 g			O O	O O		O		O	O	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 with other documents when you apply the experiments at the UVSOR facility. If you submit the application form later, please send the application form to the beamline master.
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.