

**Dr Hal @ ASE 2013**

# **Properties of SF<sub>6</sub> demonstration**

## **Risk Assessment**

Please note that this risk assessment was written to cover the demonstration of this experiment at the ASE Conference in January 2013. For any other use, this risk assessment should be reviewed to see whether there is a need to modify or adapt it in any way to suit the particular conditions under which the experiment will be carried out.

## Risk Assessment: Professor Hal Sosabowski

Written By: **Professor Hal Sosabowski**

Location: University of Reading

Date Of Assessment: 12<sup>th</sup> December 2010

### CATEGORY/ACTIVITY

RISK CATEGORY	DESCRIPTION OF ACTIVITY TO BE ASSESSED
Low	6 <sup>th</sup> Jan 2013 <b>Properties of SF6 Demonstration</b>

### HAZARDS

List hazards here. List only hazards which could reasonably be expected to result in significant harm under the conditions in your workplace.

#### Aluminium foil boat floating in a tank of SF6

##### Description:

A ~ 50L glass fish tank is filled with SF6 gas from a cylinder. An aluminium foil boat is floated in the tank.

##### Hazards:

1. SF6 poses a suffocation risk;
2. High-pressure gas cylinders;

### WHO MAY BE HARMED

List here groups of people who are especially at risk from the hazards that you have identified.

You may list individuals but think of groups of people doing similar work

1. Onstage demonstrators

### RISK ASSESSMENT

List existing precautions & controls here or note where information can be found

#### General:

(i) Dr Hal Sosabowski/D.Campbell who will carry out this experiment have performed it previously.

#### 1. SF6 poses a suffocation risk

Only small volumes of SF6 will be used and operators will not work in enclosed areas. SF6 is an inert non-toxic gas used in the electrical industry.

#### 2. High-pressure gas cylinders

SF6 (sulphur hexafluoride) cylinder provided by BOC. SF6 gas regulator used, fitted and controlled by D. Campbell –trained in gas cylinder/gas regulator handling. Gas cylinder(s) to be held in safety stands. D. Campbell to oversee the storage and use of cylinders at all times.

**WHAT FURTHER ACTION IS NECESSARY**

List all risks that are not adequately controlled and the action that you will take, where it is practicable, to do more

None
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Have all necessary precautions and procedures been included in the assessment?
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Yes
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<b>RESULT - T=Low Risk /A=Adequately controlled</b>
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**Operators:**

**Dr M H Sosabowski B.Sc. Ph.D. MBA MA C.Chem MRSC  
D. Campbell**