

# Risk Assessment

Date; 11 / 08 / 14

**Activity description;** Working with cryogenic apparatus and cryogenes (excluding transporting dewars).

Main Hazard(s), this is a list of all the hazards that were foreseen as far as is reasonably practicable	Probability of hazard occurrence 0 -	Seriousness 1- 10 (1 is less).	Action to be taken?
Severe cold and risk of cold-burns from equipment, cryogenes and cold materials.	0.6	8	Wear suitable PPE, take care when handling fluids, materials and anything associated with cryogenics
Risk of oxygen depletion from cryogenes.	0.75	10	Carefully monitor O2 level sensors where fitted and if the O2 level starts to go down, stop work and if safe to do ventilate the area, if not, evacuate the area. Investigate the cause only when the area is safe to re-enter.
Risk of cryogenes spilling and/or splashing onto exposed body parts.	0.5	9	Wear suitable PPE and take care when dispensing cryogenes. No body parts that could be contacted while doing this should be exposed.
Risk of gloves filling up with cryogenic fluid	0.3	7	Take care when using cryogenes so that no fluid can enter the glove, also, do not immerse any body parts into fluid. Make sure that any exposed body parts are clean, dry and free from moisture.
Risk of spillage and/or spray from high-pressured cryogenic-fluid delivery points	0.5	8	Carefully open and close delivery points and make sure all connections are leak-tight before commencing work. Report any defective equipment and stop work immediately if found.
Risk of cold-burns from residual cold in materials	0.8	6	Take care when handling anything that might have been cold, use gloves. If it looks cold, assume it's very cold and wear suitable PPE.
People who are not competent trying to work with cryogenic apparatus and cryogenes	1	8	Stop user from working immediately and report them to their supervisor who is responsible for their work. Do not let them re-commence work until they have proven they are competent to carry out the task(s).
Mean probability of any hazard occurring	0.65		
Overall seriousness where 1 is minimal damage and 10 is very serious damage	8		

**This risk assessment is to be used as a guide, only. Each person is responsible for investigating thoroughly and ensuring their working practices are safe, as well as reviewing their working practices regularly, in-line with national rules and guidelines.**