



The University of Sheffield

Risk Assessment Form

PERSONS AT RISK : (X) Employees (X) Contractors () Public (X) Visitors (X) Others			Reference No:
Risk: (H) High (M) Medium (L) Low (O) No Risk.		Environment: Laboratory or storage areas	
TASK or ACTIVITY: Use of Inert Cryogens in laboratories and storage areas		INITIAL RISK RATING	FINAL RISK RATING
SIGNIFICANT HAZARD	RISK		
Cryogenic liquid up to 15 litres	Cold burns / frostbite	M	} 1. Ensure workplace and work area are well ventilated 2. Use minimum quantities in workplace 3. Ensure all workers wear suitable protective clothing on feet, legs and hands (see Comments) 4. Ensure all workers handling or using cryogens are fully trained and instructed in its use 5. Use only equipment and containers designed for use with cryogens }
			} L
Cryogenic liquid 20 litres & over	Asphyxiation due to rapid conversion of liquid to gas	H	} 1. Controls as listed above 2. Installation of Oxygen Deficiency sensing where oxygen concentrations would be lower than 18% in the event of total conversion liquid to gas - High or Low level sensing dependant on gas present 3. Oxygen sensor - 6 monthly calibration & 12 monthly replacement. 4. Emergency Procedure for evacuation of workplace in event of low level oxygen alarm }
	Cold burns / frostbite		} L
			} }
Comments: Use face shield or goggles to protect face and eyes from splashes. Wear stout shoes with lower leg protection.			Overall Risk:
Use dry, loose fitting, leather gloves suitable for use with cryogens.			L
Additional References, Tasks etc			
Safety Services Guidance "General safety in the use of Cryogenic Fluids"			
For transport of Cryogens in vehicles and lifts see risk assessment "Transport of Cryogenic Fluids"			
Undertaken By:			
Other Persons Consulted:			
Date:			Revision Date: