|  |  |
| --- | --- |
| Name and nature of activity | Handling dry ice (solid carbon dioxide) |
| Location and date of activity |       |
| Name of teacher/technician |       |
| Activity type | [x] Technician procedure [x] Teacher demonstration [ ] Student activity – Student year group       |
| Physics and general equipment | Type of hazard | Controls and other measures |
| NA | [ ]  Radiation  ionising  laser[ ]  Electrical [ ]  Thermal[ ]  Projectiles[ ]  Sharps[ ]  Other –       | [ ]  Relevant signage[ ]  Perspex safety shield[ ]  Sharps container[ ]  Glassware free from cracks or chips[ ]  Safety glasses[ ]  Thermally insulated gloves[ ]  Other –       |
| Chemicals used and produced | Type of hazard | Controls and other measures |
| Carbon dioxide (solid and gas) | xploding bomb[ ]  Explosivelame[ ]  Flammablelame over circle[ ]  Oxidisingas cylinder[ ]  Gases under pressureorrosion[ ]  Corrosive | kull and cross bones[ ]  Acute toxicityxclamation mark [ ]  Health hazardsealth hazard[ ]  Chronic health hazards nvironment[ ]  Environmental[x]  Other – Asphyxiation, cold burns | [x]  Limit quantity/concentration[x]  Perspex safety shield [x]  Ventilation: natural/exhaust[ ]  Fume cupboard[x]  Safety glasses[ ]  Laboratory coat/apron [ ]  Gloves: latex/nitrile/neoprene/PVC[ ]  Safety shower[x]  Other – Tongs, thermally insulated gloves, insulated storage container with a loose fitting lid. Do NOT place in a sealed container |
| Biological/geological materials used | Type of hazard | Controls and other measures |
| NA. | [ ]  Biohazard [ ]  Dust/aerosols [ ]  Sharps[ ]  Manual handling [ ]  Other –       | [ ]  Steriliser[ ]  Disinfectant [ ]  Sharps container [ ]  Dust mask[ ]  Safety glasses[ ]  Gloves [ ]  Other –       |
| Waste produced | Waste disposal procedure |
| Unused dry ice.Carbon dioxide gas. | [ ]  Pre-treatment of waste –      [ ]  Sink with water –      [ ]  Regular waste –      [ ]  Licenced hazardous waste company –      [x]  Other – Allow unused dry ice to sublime in a well-ventilated area. |
| Standard Operating Procedures |
| [ ]  I have read the relevant Standard Operating Procedure. [ ]  I am experienced/trained in using all the equipment listed. [ ]  All chemicals used and produced are approved for use.[ ]  I have read the current SDSs for all hazardous chemicals used and produced.[ ]  I am aware of safety guidelines for using all chemicals, materials and equipment. [ ]  I will follow local guidelines for waste disposal (water authority, local council, EPA).[ ]  I am aware of first aid procedures if required. |
| Other comments:       |
| Conclusion:[ ]  Risks not significant now and not likely to increase.[ ]  Risks significant but effectively controlled at the moment.[ ]  Risks significant and not adequately controlled at the moment.[ ]  Uncertain about risks; more detailed assessment required. |
| Assessment carried out by:      | Signature: | Date:       |
| Assessment approved by:      | Signature: | Date:       |
| Next assessment due:       |
| **This Risk Assessment assumes that the activity will be conducted in a science teaching area with the following facilities: electricity, running water, emergency shut-offs for electricity, gas if applicable, and water, regular testing and tagging of portable appliances; emergency contingencies such as evacuation/emergency plans, appropriate fire extinguishers, spill kits, hand washing facilities, eyewash/safety shower and first aid supplies. It is also assumed that all the necessary licencing requirements and approvals are obtained prior to the activity.** |