**Laboratory Eye Hazard Risk Assessment Tool**

1. **Location Details**

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| --- | --- | --- |
| *Department:* | *Building:* | *Room Number(s):* |

1. **Approval**

|  |  |  |
| --- | --- | --- |
| *Laboratory Supervisor Name:* | *Signature:* | *Date:* |

1. **Hazard Identification**

* Please complete check-list on rear of form. Form Completed? Yes

1. **Minimum Eye Protection Requirements**

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| Taking into account any eye hazards identified, specify the minimum Eye Protection requirements for this laboratory:  None Safety Glasses (Medium Impact)  Other, specify: |

1. **Additional Eye Protection Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
| Are there any substances/equipment/procedures that require the use of forms of Eye Protection (or other protective measures such as protective screens) other than (or in addition to) those specified in section (4) above?  *If yes, please specify details below* | | NO | YES |
|  |  | | |
| Substance/equipment/procedure | Eye Protection/Other Controls Required  (*or reference applicable SOP/risk assessment*) | | |
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**Eye Hazard Identification Check-list**

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| **Eye hazard** | **Examples** | **Present** | |
| **No** | **Yes** |
| **Substances that may cause injury to the eyes** | |  |  |
| Skin/Eye Corrosives (Class 8.2/8.3) | Hydrochloric acid, Sodium hydroxide, Phenol |  |  |
| Substances that heat dangerously or ignite in contact with air/water (Class 4.2, 4.3) | Tert-butyllithium, sodium metal |  |  |
| Cryogenic liquids | Liquid nitrogen |  |  |
| Very hot liquids | Molten metals, molten salt baths, hot oil |  |  |
| **Substances that may contaminate the body through the eyes** | |  |  |
| Acute Toxicity (Class 6.1) | Phenol, Acetonitrile, Acrylamide |  |  |
| Eye Irritants (Class 6.4A) | Ethanol |  |  |
| Chronic Toxicity (Classes 6.5 – 6.9) | Acrylamide, formaldehyde |  |  |
| Radionuclides | 14C, 32P, 33P, 3H |  |  |
| Infectious organisms/substances | Human blood and body fluids |  |  |
| **Projectile hazards** | |  |  |
| Glassware under vacuum/pressure | Glass vacuum traps, rotary evaporators, |  |  |
| Other apparatus with explosion hazard | Hydrogenation apparatus, chemical reactions generating significant gas/heat |  |  |
| Compressed gases | Compressed gas cylinders, regulators, piping |  |  |
| Use of powered cutting/grinding/drilling equipment | Band-saws, drills, grinders |  |  |
| Potentially explosive substances (Class 1, 4.1.2A-C, 5.2A-C, 4.1.3A-B) | Picric acid (Trinitrophenol), Dinitrophenol |  |  |
| **Eye hazardous radiation** | |  |  |
| Artificial UV sources | UV trans-illuminators, UV lamps |  |  |
| Lasers of Class 3B or higher (exposed beam) | Potential exposure to lasers of Class 3B or higher |  |  |
| Strong β radiation sources | 32P |  |  |
| **Fire/radiant heat** | |  |  |
| Risk of flash fire | Procedures with risk of igniting flammable vapours or gas |  |  |
| Exposure to intense radiant heat/infrared | High temperature furnaces |  |  |
| **Other – please specify below:** | |  |  |
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| **Notes/comments:** |