THE UNIVERSITY OF MELBOURNE

# RISK ASSESSMENT 3D Model

**EHS Manual**

*This form is to be used in conjunction with the Environment Health and Safety Manual Procedure 3.2 Hazard Identification, Assessment and Control - Application.*

## Information of Activity

Activity: Use of Microfuge

Location: CAB, Veterinary Science, Parkville

Identified by: Laboratories

Date: Update September, 2004

Identified Hazard / Aspect: Exposure to small amounts of toxic materials, collision with small projectiles

## Risk Analysis matrix – level of risk

| Identified Hazards | Risk Assessment | | | Risk Score | Risk Level |
|---|---|---|---|---|---|
| | Exposure (E) | Likelihood (L) | Consequence (C) | E x L x C | |
| Exposure to toxic substances | 3 | 0.3 | 2 | 1.8 | L |
| Entanglement – collisions | 3 | 0.3 | 2 | 1.8 | L |
| | | | | | |

| Definitions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Exposure | E | Likelihood | L | Consequence | C | Risk Score | Hierarchy of Risk Controls |
| Continuously | 10 | Almost Certain | 1.0 | Catastrophic | 20 | **E** >20<br>**H** >10 | **Elimination** is a permanent solution and should be attempted in the first instance. |
| Frequently | 6 | Likely | 0.6 | Major | 10 | **M** 3-10 | **Substitution** involves replacing the hazard or environmental aspect by one of lower risk. |
| Occasionally | 3 | Possible | 0.3 | Moderate | 5 | | **Engineering** controls involve physical barriers or structural changes to the environment or process. |
| Infrequently | 2 | Unlikely | 0.1 | Minor | 2 | **L** < 3 | **Administrative** controls reduce hazard by altering procedures and providing instructions. |
| Rarely | 1 | Rare | 0.05 | Insignificant | 1 | | **Personal protective equipment** last resort or temporary control. |

**LEGEND**

E: extreme/significant risk; immediate action required; must be managed by senior management with a detailed plan, notify RMO immediately.
H: high risk, senior management attention needed, detailed research and management planning at senior levels
M: moderate risk, management responsibility must be specified; manage by specific monitoring or response procedures
L: low risk, manage by routine procedures; unlikely to need specific allocation of resources

## Details of Action to be Taken

Actions: *(These should be determined by both the person(s) identifying the risk and the responsible manager and HSR or Environmental Representative)*. When determining action refer to Hierarchy of Risk Control.
Assistance for those not able to lift/carry heavy rotors.

Ensure tubes are balances, Wear personal protective equipment: Lab coat, gloves, eye protection, face mask,

Ensure power cord is undamaged, Operate according to training, Monitor radioactivity if appropriate

Person assessing the risk: KEN SNIBSON

Date: September 2004

Authorised by: CAB Laboratory Management Committee

Planned completion date: _____

## Actions Completed

Actions by: _____ Completed (Initials & date): _____