

RISK ASSESSMENT DETAILS

RISK ASSESSMENT TITLE

ANAESTHETIC MACHINE

RISK ASSESSMENT COMPLETED BY:

Kate Millan – Health & Safety Officer

SUBJECT MATTER EXPERT:

Adriana Caon

RA NUMBER:

101MBS

VERSION:

2

VERSION DATE:

24/01/2011

REVIEW DATE:

24/01/2016

IMPORTANT NOTES

Machine located in room 5.24 of the Molecular Life Sciences Building

PERSONS AT RISK

Users of the Anaesthetic machine.

REFERENCED DOCUMENTATION: (list any other sources of information that relates to this risk assessment, e.g. SOPs, other Risk Assessments etc)

SOP Anaesthetic Machine
 SOP Asphyxiant Gases
 Animal Handling Procedures
 AS3760 – Electrical Testing Australian Standard
 Chemical Management Handling & Storage Procedures

OVERALL RISK RATING

Medium

HAZARD IDENTIFICATION & RISK ASSESSMENT (use the Risk Matrix below to assess the risk)

HAZARD 1:

Chemical

ASSOCIATED RISKS:

Asphyxiation from exposure to anaesthetic gases.

MEASURES REQUIRED TO REDUCE RISK:

1. SOP for using the machine must be displayed in the area and followed at all times.
2. Users must have training in this equipment prior to use and training records documented.
3. Equipment to be located in a specifically modified room fitted with dedicated ventilation/exhaust system.
4. Exhaust system **MUST BE OPERATING** when using the machine.
5. Check cylinders regularly for leaks.
6. Read MSDS for gases prior to use.

RESIDUAL RISK (When all control measures have been implemented)

CONSEQUENCE

Major

LIKELIHOOD

Unlikely

RISK RATING

Medium

HAZARD 2:

Biological

ASSOCIATED RISKS:

Exposure to infectious material through handling of mice/small animals

MEASURES REQUIRED TO REDUCE RISK:

1. SOP for using the machine must be displayed in the area and followed at all times.
2. All users must have training in animal handling procedures and training records documented.
3. Appropriate PPE should be worn at all times – Gloves, lab coats, eye protection.

RESIDUAL RISK (When all control measures have been implemented)

CONSEQUENCE

Moderate

LIKELIHOOD

Unlikely

RISK RATING

Medium

HAZARD 3:

Electricity

ASSOCIATED RISKS:

Electric Shock

MEASURES REQUIRED TO REDUCE RISK:

1. SOP for using the machine must be displayed in the area and followed at all times.
2. Users must have training in this equipment prior to use and training records documented.
3. Equipment must be electrically tested in accordance with AS3760.
4. Equipment must be maintained as per the manufacturer's recommendations.

RESIDUAL RISK (When all control measures have been implemented)	CONSEQUENCE	LIKELIHOOD	RISK RATING
		Major	Rare

HAZARD 4:

Fire/Explosion

ASSOCIATED RISKS:

Fire caused by incorrect storage of gases or contact with ignition sources. Heating of nitrous oxide can also cause an explosion.

MEASURES REQUIRED TO REDUCE RISK:

1. SOP for using the machine must be displayed in the area and followed at all times.
2. Store in a cool, well ventilated area (caged shed outside of building).
3. Check cylinders regularly for leaks.
4. Read MSDS before use.
5. Nitrous oxide must not be stored with flammables, explosives, poisons, acids, corrosives.

RESIDUAL RISK (When all control measures have been implemented)	CONSEQUENCE	LIKELIHOOD	RISK RATING
		Major	Rare

ADDITIONAL CONTROLS AFTER REVIEW**RISK CONTROL:**

DATE OF REVIEW:

REVIEWED BY:

RISK CONTROL:

DATE OF REVIEW:

REVIEWED BY:

RISK CONTROL:

DATE OF REVIEW:

REVIEWED BY:

HAZARD REGISTER

If the residual risk is high or very-high after controls have been implemented, the risk assessment must be signed off by the Head of School and transferred to the Hazard Register.

DATE ENTERED ON HAZARD REGISTER:

HEAD OF SCHOOL SIGNATURE:

RISK MATRIX

Consequence

		Negligible	Minor	Moderate	Major	Severe
Likelihood	Almost Certain	M	H	V	V	V
	Likely	M	M	H	V	V
	Slight	L	M	H	H	V
	Unlikely	L	L	M	M	H
	Rare	L	L	L	M	M

Almost Certain	There is an expectation that such an event will occur.	Severe	Injury resulting in death or permanent disability.
Likely	There is an expectation that such an event could occur but not certain to occur.	Major	Injury requires extensive medical treatment, hospitalisation.
Slight	The expectation of this event occurring is between "could" and "improbable".	Moderate	Injury requires formal medical treatment e.g. treatment as an outpatient in a medical facility.
Unlikely	The expectation of this event occurring is doubtful or improbable.	Minor	Injury requires first aid.
Rare	There is no expectation that this event will occur.	Negligible	Injury requires minor first aid or results in short term discomfort e.g. headache, bruise etc.