



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: Storage of mixed classes in fridge/freezer Location: Chemistry labs
Identified by: G. Papadopoulos Date: 20/6/07
Identified Hazard / Aspect: Reaction of chemicals of different classes

Risk Analysis matrix - level of risk

Table with 5 columns: Identified Hazards, Risk Assessment (Exposure, Likelihood, Consequence), Risk Score (E x L x C), Risk Level. Row 1: Reaction of chemicals of different classes, 10, 0.1, 10, 10, M.

Definitions table with 6 columns: Exposure, E, Likelihood, L, Consequence, C, Risk Score, Hierarchy of Risk Controls. Rows include Continuously, Frequently, Occasionally, Infrequently, Rarely with corresponding risk levels and control descriptions.

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 Risk Controls to be Taken

Risk Controls:

It is a requirement that chemicals of different classes are not stored together. At times it is simply not practicable to procure a separate fridge/freezer for each chemical class, particularly when storing minor quantities. In this instance the following guidelines must be adhered to:

- Separate the different classes as far as possible, ie separate shelves, trays or compartments. Secondary removable trays should be used to prevent spillage.
Wrap caps of volatile materials in parafilm or place volatile materials in ziplock bags;
Class 3s and class 5s should be further segregated by secondary separation. Eg sealing one of the classes in a box or container. (Provided the class 5s do not exceed a reasonable quantity, eg 2.5lt)
Where provided, fridges/freezers should be hooked up to the red power points (back-up power).
Intrinsically safe fridges are used.

Chemicals stored in a cold environment are less likely to react or give off fumes because in most cases they are stored here to make them more stable than they would be at room temperature.

Person assessing the risk: G. Papadopoulos Date: 20/6/07
Authorised by: G. Papadopoulos Planned completion date:

Risk Control Measures Completed

Actions by: Completed (Initials & date):