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Organic Peroxide Storage Cabinets Installation and Maintenance Instructions

Organic peroxides storage cabinets are constructed to AS2714-1993. This standard allows for storage of up to 100kg or L in a cabinet, or 50kg or L in the case of Type B organic peroxides.

Design features include:

- Walls, floor, roof and door must be constructed of double-walled steel at least 0.75mm thick.
- There must be a gap of at least 40mm between the walls to limit heat getting inside the cabinet.
- The cabinet bottom must form a liquid-tight sump capable of containing the entire liquid contents of the cabinet.
- Shelves must be perforated for free air movement.
- Doors must be self-closing and close-fitting. They must be held shut by either a friction or magnetic lock, which will release in the event of a build-up of pressure within the cabinet.
- Door catches and hinges must not be made of plastic.
- Every cabinet must be provided with ventilation features adequate to prevent the accumulation of flammable or toxic concentrations of vapours, and to assist in maintaining an even temperature. Where cabinets are vented to atmosphere, ducting must be designed to prevent back pressure and be directed away from ignition sources and areas where persons are likely to congregate.

Under AS2714, cabinets must be located at least 3m from any ignition source, and near an external wall of the building. They must not block exits and stairways. The opening, dispensing and weighing of organic peroxides must not be conducted within 3m of a cabinet.

The storage of any other class of dangerous goods in a designated organic peroxides cabinet is prohibited under section 3.3 c of AS2714. No pipeline carrying other classes of dangerous goods may pass within 3m of an organic peroxides cabinet.
