



Critical and Hazardous Materials

BP-27

Department of Building and Planning

Critical Materials

As you may know Spokane County is located over an aquifer that is our primary source of drinking water.

To assure permanent protection of our primary source of drinking water, the Spokane County Code requires many non-residential building permit applications to include a Critical and Hazardous Materials List, which is a listing of any chemicals (solid or liquid) used or stored in or on the site. If a sufficient quantity of a chemical is present, measures need to be taken to prevent contamination of the aquifer in the event of a spill: 1) Facilities need to be designed so that any spilled or leaked materials are contained on site and cannot infiltrate into the ground; and, 2) No permanent disposal of any waste containing critical materials is allowed on a site within the Aquifer Sensitive Area (ASA). When underground storage of any critical materials is included in the design of any facility, the storage vessel and associated piping and transfer equipment need to be protected by an approved secondary containment system.

Hazardous Materials

In addition, many commonly used chemicals or other materials may be designated as a physical and/or health hazard as defined by the International Building Code (IBC) Chapter 3 and the International Fire Code (IFC) Chapter 27. For example, gasoline is classified as a flammable liquid with a I-B rating (physical hazard); motor oil is classified as a combustible liquid with a III-B rating (physical hazard). Some materials may be a multiple hazard. An excellent example of a multiple hazard is chlorine. Chlorine is classified as a physical hazard (oxidizer) in IBC Section 415 and also as a health hazard.

Requirement for report

The building official may require a technical opinion and report to identify and develop methods of protection from the hazards presented by the hazardous material. The opinion and report must be prepared by a qualified person, firm or corporation approved by the building official.

The opinion and report may include, but is not limited to, the preparation of a hazardous material management plan (HMMP); chemical analysis; recommendation for methods of isolation, separation, containment or protection of hazardous materials or processes, including appropriate engineering controls to be applied; the extent of changes in the hazardous behavior to be anticipated under conditions of exposure to fire or from hazard control procedures; and the limitations or conditions of use necessary to achieve and maintain control of the hazardous materials or operations. The report will be entered into our files.

EXCEPTION: When an HMMP is required, the applicant may submit the report(s) used for compliance with requirements of 40 CFR "Hazardous Chemical Reporting and Community Right-to-Know Regulations" under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

Additional information may be requested if it is determined that critical, hazardous, or toxic materials are used and/or stored at your location.

For more information or an appointment contact:
Spokane County Dept. of Building and Planning
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Spokane, WA 99260-0050
(509) 477-3675 bp@spokanecounty.org
<http://www.spokanecounty.org/bp>

Instructions for completing the Critical and Hazardous Materials List & Inventory Form

All chemicals maintained on the site must be listed for the purpose of determining occupancy and construction requirements as they relate to the use or storage of hazardous or toxic materials .

Please list all chemicals on the form as follows:

- The chemical by name, including common chemical names generally associated with the material;
- The total amounts of each chemical along with container sizes;
- MSDS Sheets: attach MSDS sheets, flash point or other information pertinent to the chemical to this list;
- Areas of the building where the product is used or stored.

For hazardous materials/chemicals use the "Hazardous Material Inventory" form to catalogue the quantities of these materials.

Make sure to list all items such as process and other chemicals, pesticides, fertilizers, cleaning solutions, and hazardous chemicals. The department will then review the list to determine the applicability of critical material/hazardous material requirements.

Please note that the use or storage of Critical materials may require double containment design, clean up procedure, and name of hazardous material disposal company to be submitted. Please be as complete as possible.

HAZARDOUS MATERIAL INVENTORY

Physical Hazard Material	Class	Quantity In Storage	Quantity In Use (open)	Quantity In Use (closed)	Total Allowed
Combustible liquids	II				
	III-A				
	III-B				
Combustible fiber					
Cryogenic, flammable or oxidizing					
Explosive					
Flammable solid					
Flammable gas					
Flammable liquid	I-A				
	I-B				
	I-C				
Combination I-A, I-B, I-C					
Organic peroxide, unclassified detonarable					
Organic peroxide					
Oxidizer					
Oxidizer-gas					
Phyrophoric					
Unstable (reactive)	4,3,2,1				
Water reactive	3,2,1				
Corrosives					
Highly toxics					
Irritants					
Sensitizers					
Other health hazards					
Toxics					