

OUTDOOR STORAGE IN EAST COMPOUND FOR TRADES

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The references for the following summary were taken principally from the WorkSafeBC Regulations - part 5 and the BC Fire Code 2012 (Division B – Part 3) as of September 2015. Any clarifications, verifications or updates must be made against the full regulations and Code. In anticipation of legislative changes to WHMIS2015, Hazardous Products Act, Hazardous Waste Regulations and Dangerous Goods Act it is strongly recommended to maintain an inventory of volumes for each class of items stored in the compound.

Item Description	Storage restrictions without additional measures	Additional Storage Measures
General requirements for Outdoor Storage	<ul style="list-style-type: none"> - No open sparks, flames or heat - No vegetation, uncontrolled grass or weeds - Fencing at 1.8m high with locking gate - Free of obstacles and piles of snow - No Smoking within 10m - Level site paved with asphalt, concrete or other hard surface - Site clearly indicated on the Fire Safety Plan with additional measures, if required 	
Rubber Tires	<ul style="list-style-type: none"> - Cannot be stacked higher than 3m - Total base area cannot exceed 5m² - Maintain a clear access route of not less than 6m 	<ul style="list-style-type: none"> - Should the base area exceed 5m², clearance of not less than 15m shall be maintained between the tires and a building
Used Oil Filters / empty oil jugs	<ul style="list-style-type: none"> - Can be stored next to a building wall with not less than 2 h fire rating AND - Separated from other stored products or wall opening by 3m on either side AND - 6m perpendicular in front of the opening - Spill containment of at least 120% 	<ul style="list-style-type: none"> - If stored in closed, tightly sealed metal drums, the clearance between other stored products can be waived but must still be at least 1m from any combustible materials. - A synthetic liner of at least 4mil is required within the drum
Used Car Batteries	<ul style="list-style-type: none"> - A minimum horizontal distance of 3m from incompatible products (oxidizers and flammables) 	<ul style="list-style-type: none"> - If stored in an approved self-closing corrosive cabinet, the clearances can be waived.

NFPA 30 summary on flammable versus combustible liquids

A flammable liquid is defined as a liquid whose flash point does not exceed 100°F, when tested by closed-cup test methods, while a combustible liquid is one whose flash point is 100°F or higher, also when tested by closed-cup methods.

These broad groups are further classified as follows:

Class I	Flash Point	Boiling Point	Example
Class IA	< 73°F	< 100°F	Diethyl Ether, Ethylene Oxide, some light crude oils
Class IB	< 73°F	≥ 100°F	Motor and Aviation Gasolines, Toluene, Lacquers, Lacquer Thinner
Class IC	≥ 73°F, but < 100°F		Xylene, some paints, some solvent-based cements
Class II	≥ 100°F, but < 140°F		Diesel Fuel, Paint Thinner
Class IIIA	≥ 140°F, but < 200°F		Home Heating Oil
Class IIIB	≥ 200°F		Cooking Oils, Lubricating Oils, Motor Oil

NOTE - The definition of "flammable liquid" will likely be changed to meet international transportation regulations by raising the upper limit to 141°F (60.5°C). A single, world-wide set of hazardous materials regulations sponsored by the United Nations has been adopted by Canada under the WHMIS 2015 regulations and will also have changes to the Transportation of Dangerous Goods Act (TDG).

There is generally no requirement for exhaust ventilation for storage cabinets, although most cabinets have plugged fittings that can be used for such purpose. Exhaust ventilation should only be provided when warranted by the materials in the cabinet, for example for particularly toxic or noxious materials. If provided, the manufacturer's instructions should be followed. Typically, this will involve small diameter steel duct or pipe leading directly and by the shortest route to the exterior of the building. Exhaust must be taken from the bottom of the cabinet.