

Seattle Fire Department

Permit Conditions

801-J

Highly Toxic Liquids and Solids

This permit shall be kept on the premises designated herein at all times and shall be readily available for inspection by the fire code official. [SFC 105.3.5]

General:

1. Liquids shall be transferred by one of the following methods:
 - 1) From safety cans complying with UL30.
 - 2) Through an approved closed piping system.
 - 3) From containers or tanks by an approved pump taking suction through an opening in the top of the container or tank.
 - 4) From containers by gravity through an approved self-closing or automatic-closing valve when the container or tank and dispensing operations are provided with spill control and secondary containment in accordance with SFC Section 2704.2.
 - 5) Approved engineered liquid transfer systems. (SFC 3703.1.5.1, 2705.1.10)

Indoor Storage and Use:

2. Storage of highly toxic liquids and solids shall be isolated from other hazardous materials by one-hour fire resistive construction or stored in approved hazardous materials storage cabinets. (SFC 3703.1.4.2)
3. Floors of indoor storage areas shall be liquid tight. (SFC 3703.1.4.1)
4. Exhaust scrubbers or other systems for processing vapors of highly toxic liquids shall be provided where a spill or accidental release of such liquids can be expected to release highly toxic vapors at normal temperature and pressure. (SFC 3703.1.3)
5. Mechanical exhaust ventilation shall be provided to capture gases, fumes, mists or vapors at the point of generation for highly toxic liquids used in open systems or where closed systems are designed to be opened as part of normal operations. (SFC 3703.1.5.2)

Outdoor Storage and Use:

6. Exhaust scrubbers or other systems for processing vapors of highly toxic liquids shall be provided where a spill or accidental release of such liquids can be expected to release highly toxic vapors at normal temperature and pressure. (SFC 3703.1.3)
7. Outdoor storage of highly toxic solids and liquids shall not be within 20 feet of lot lines, public streets, public alleys, public ways, exit discharges or exterior wall openings. A two-hour fire barrier wall without openings or penetrations extending not less than 30 inches above and to the sides of the storage area is allowed in lieu of such distance. The wall shall either be an independent structure, or the exterior wall of the building adjacent to the storage area. (SFC 3703.2.3.1)
8. Outdoor storage piles of highly toxic solids and liquids shall be separated into piles, each not larger than 2,500 cubic feet. Aisle widths shall not be less than one-half the height of the pile or 10 feet, whichever is greater. (SFC 3703.2.4)
9. Where overhead weather protection is provided for outdoor storage or use of highly toxic liquids or solids and the weather protection is attached to a building, the storage or use area shall either be equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1 of the Fire Code or storage or use vessels shall be fire resistive. (SFC 3703.2.5)