

Seattle Fire Department

Permit Conditions

801-M

Oxidizer Liquids and Solids

NOTICE

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]

The fire code official shall be immediately notified by calling 9-1-1 when an unauthorized discharge of a hazardous material, including flammable and combustible liquids, becomes reportable under state, federal, or local regulations, or when any release inside or outside a building could present a fire or life safety hazard. [SFC 5003.3.1]

GENERAL PROVISIONS:

1. A fire extinguisher having a rating of 2A, 40-BC shall be provided at least 10 feet from, but no more than 30 feet from areas where oxidizing liquids and solids are stored, used, dispensed or handled. [SFC 906]
2. Hazard identification signs as specified in NFPA 704 shall be placed on stationary containers and at entrances to locations where oxidizing liquids and solids are stored, dispensed used or handled. [SFC 5003.5]
3. Smoking shall be prohibited and "No Smoking" signs shall be provided as follows:
 - a. Within 25 feet of outdoor storage or use.
 - b. In rooms or areas where oxidizing liquids and solids are stored, dispensed, used or handled. [SFC 5003.7.1]
4. Storage of oxidizing liquids and solids, in storage, shall be separated from incompatible materials by a distance of at least 20 feet or by a non-combustible partition extending at least 18 inches above and to the sides. [SFC 5003.9.8]
5. In display areas of Group M occupancies, storage height of oxidizing liquids and solids shall exceed 6 feet in height. In storage areas of Group M and S occupancies, not accessible to the general public, storage height shall not exceed 8 feet in height. [SFC 5003.11.3.2]
6. Individual containers of oxidizing liquids less than 5 gallons, and oxidizing solids less than 25 pounds, shall be stored or displayed on pallets, racks or shelves. [SFC 5003.11.3.3]
7. Individual containers shall not exceed 10 gallons or 100 pounds for oxidizing liquids and solids in storage and display areas. [SFC 5303.11.3.6]
8. Aisles 4 feet in width shall be maintained on three sides of the storage or display area. [SFC 5303.11.3.9]
9. Any amount of Class 4 liquid or solid shall be stored separately in hazardous materials cabinets complying with section 5003.8.7 for all A, E, I or U occupancies and these cabinets shall not contain other storage. [SFC 6303.1.1.1.1]
10. Class 4 liquid and solid oxidizers shall not be stored or used in offices or retail sales areas of Group B, F, M or S occupancies. [SFC 6303.1.1.1.3]
11. Any amount of Class 4 liquid or solid, stored in classrooms of B, F or M occupancies, shall be stored separately in hazardous materials cabinets complying with section 5003.8.7 and these cabinets shall not contain other storage. [SFC 6303.1.1.1.4]
12. A maximum of 220 pounds of solid or 22 gallons of liquid Class 3 oxidizer is allowed in storage and use when necessary for maintenance or operation of equipment. The oxidizers shall be stored in *approved* containers and in an *approved* manner. [SFC 6303.1.1.2]

Seattle Fire Department

Permit Conditions

801-M

Oxidizer Liquids and Solids

13. Storage and use of oxidizing materials exceeding the maximum allowable quantity per control area as indicated in Table 5003.1.1(1), shall be in accordance with Sections 5001, 5003, 5004 and Chapter 63. [SFC 6304.1]
14. Indoor storage rooms, areas and buildings containing Class 4 liquid or solid oxidizers shall be provided with explosion control in accordance with the Seattle Fire Code. [SFC 6304.1.1]
15. Liquid and solid oxidizer storage areas shall have floors that are liquid tight. [SFC 6304.1.3]
16. An approved supervised smoke detection system in accordance with Section 907 of the Seattle Fire Code shall be installed in liquid and solid oxidizer storage areas. Activation of the smoke detection system shall sound a local alarm.
Exception: Detached storage buildings protected by an *approved* automatic fire-extinguishing system. [SFC 6304.1.4]
17. Class 2 oxidizers shall not be stored in basements except when such storage is in stationary tanks. [SFC 6304.1.5]
18. Class 3 and 4 oxidizers in amounts exceeding the *maximum allowable quantity per control area* shall be stored on the ground floor only. [SFC 6304.1.5]
19. Class 4 oxidizer liquids and solids shall be separated from other hazardous materials by not less than a 1-hour fire barrier or stored in hazardous materials cabinets. [SFC 6304.1.6]
20. Detached storage buildings for Class 4 oxidizer liquids and solids shall be a minimum of 50 feet from other hazardous materials. [SFC 6304.1.8.1]
21. Outdoor storage areas for liquid and solid oxidizers shall be located in accordance with Table 6304.2.1 [SFC 6304.2.1]
22. Liquid Oxygen home care containers shall not exceed an individual capacity of 15.8 gallons in Group I-1, I-4 and R occupancies. [SFC 6306.3.1]
23. The maximum aggregate quantity of liquid oxygen allowed in storage and in use in each *dwelling unit* shall be 31.6 gallons. [SFC 6306.4]
24. Liquid Oxygen home care containers shall be restrained while in storage or use to prevent falling by contact, vibration or seismic activity. [SFC 6306.3.4]
25. Smoking prohibited in rooms or areas where liquid oxygen is in use. [SFC 6306.5]
26. Warning signs stating "OXYGEN-NO SMOKING" shall be posted in each room or area where liquid oxygen containers are stored, used or filled. [SFC 6306.6.1]