



CITY OF MANTECA - FIRE DEPARTMENT

FIRE PREVENTION BUREAU

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AEROSOL PRODUCTS PERMIT REQUIREMENTS

105.6.1 Aerosol products. Operational permit is required to manufacture, store or handle an aggregate quantity of Level 2 or Level 3 aerosol products in excess of 500 pounds (227 kg) net weight.

Aerosol products shall be classified by means of the calculation of their chemical heats of combustion and shall be designated Level 1, Level 2 or Level 3.

Level 1 aerosol products. Those with a total chemical heat of combustion that is less than or equal to 8,600 British thermal units per pound (Btu/lb) (20 kJ/g).

Level 2 aerosol products. Those with a total chemical heat of combustion that is greater than 8,600 Btu/lb (20 kJ/g), but less than or equal to 13,000 Btu/lb (30 kJ/g).

Level 3 aerosol products. Those with a total chemical heat of combustion that is greater than 13,000 Btu/lb (30 kJ/g).

Material Safety Data Sheets. Material Safety Data Sheets (MSDS) information for aerosol products displayed shall be kept on the premises at an approved location.

5103.2 Identification. Cartons shall be identified on at least one side with the classification level of the aerosol products contained within the carton as follows:
"LEVEL ____ AEROSOLS"

5104.1 Indoor Storage General. The inside storage of Level 2 and 3 aerosol products shall comply with Sections 51.4.2 through 5104.7 and NFPA 30B. Level 1 aerosol products and those aerosol products covered by Section 5104.1.1 shall comply with the requirements for palletized or rack storage in NFPA 13.

5104.1.1 Plastic containers. Aerosol products in plastic containers larger than 4 fluid ounces, but not exceed 33.8 fluid ounces, shall be allowed only where in accordance

with this section. The commodity classification shall be Class III commodities, as defined in NFPA 13.

5104.2 Storage in Groups A, B, E, F, I and R. Storage of Level 2 and 3 aerosol products in occupancies in Groups A, B, E, F, I and R shall be limited to the following maximum quantities:

1. A net weight of 1,000 pounds (454 kg) of Level 2 aerosol products.
2. A net weight of 500 pounds (227 kg) of Level 3 aerosol products
3. A combined net weight of 1,000 pounds (454 kg) of Level 2 and 3 aerosol products.

5104.3.1 Non-segregated storage. Storage consisting of solid pile, palletized or rack storage of Level 2 and 3 aerosol products not segregated into areas utilized exclusively for the storage of aerosols shall comply with Table 5104.3.1

5104.3.2 Segregated storage. Storage of Level 2 and 3 aerosol products segregated into areas utilized exclusively for the storage of aerosols shall comply with Table 5104.3.2 and Sections 51.4.3.2.1 and 51.4.3.2.2

5105.1 Out Storage General. The outside storage of Level 2 and 3 aerosol products, including storage in temporary storage trailers, shall be separated from exposures in accordance with Table 5105.1

<u>Exposure</u>	<u>Minimum separation distance</u>
Public alleys, public ways public streets, lot lines	20 feet
Buildings exit discharge to a public way, other outside storage	50 feet

5106.2 Aerosol display and normal merchandising not exceeding 8 feet high. Aerosol display and normal merchandising not exceeding 8 feet in height shall be in accordance with Sections 5106.2.1 through 5106.2.4

5106.2.1 Maximum quantities in retail display areas. Aerosol products in retail display areas shall not exceed quantities needed for display and normal merchandising.

5106.2.2 Display of containers. Level 2 and 3 aerosol containers shall not be stacked more than 6 feet (1829 mm) high from the base of the aerosol array to the top of the aerosol array unless the containers are placed on fixed shelving or otherwise secured in an approved manner. When storage or retail display is on shelves, the height of such

storage or retail display to the top of aerosol containers shall not exceed 8 feet (2438 mm).

5106.2.3 Combustible cartons. Aerosol products located in retail display areas shall be removed from combustible cartons. (Some exceptions apply)

5106.2.4 Retail display automatic sprinkler system. Where an automatic sprinkler system is required for the protected retail display of aerosol products the wet-pipe automatic sprinkler system shall be in accordance with Section 903.3.1.1. The minimum system design shall for an Ordinary Hazard Group 2 occupancy. The system shall be provided throughout the retail display area.

5106.3.2 Automatic sprinkler protection. Aerosol display and merchandising areas shall be protected by an automatic sprinkler system based on the requirements set forth in Tables 6.3.2.7 (a) through 6.3.2.7 (l) of NFPA 30B and following in Section 5106.3.2.

5106.3.3 Separation of Level 2 and 3 aerosol areas. Separation of Level 2 and 3 areas shall comply with Section 5106.3.3

5106.4 Maximum quantities in storage areas. Aerosol products in storage areas adjacent to retail display areas shall not exceed the quantities in Table 5106.4

5106.5 Special protection design for Level 2 and 3 aerosols adjacent to flammable and combustible liquids in double row racks. The display and merchandising of Level 2 and 3 aerosols adjacent to flammable and combustible liquids in double-row racks shall be in accordance with Sections 5106.5.1 through 5106.5.8 or Section 51.6.3.3.

5107.1 Manufacturing Facilities General. Manufacturing facilities shall be in accordance with NFPA 30B.

Additional requirements may apply.