

CHAPTER 31 CORROSIVE MATERIALS

SECTION FC 3101 GENERAL

3101.1 Scope. This chapter shall govern the storage, handling and use of corrosive materials.

Exceptions:

1. Display and storage in Group M and storage in Group S occupancies complying with the requirements of FC2703.11.
2. Stationary storage battery systems in accordance with FC608.
3. This chapter shall not apply to ammonia (R-717) when used as a refrigerant in a refrigerating system in accordance with FC606.

3101.2 Permits. Permits shall be required as set forth in FC105.6.

3101.3 General. Corrosive materials shall be stored, handled and used in accordance with this chapter. Corrosive materials that are compressed gases shall additionally comply with the requirements of FC Chapter 30.

3101.4 Supervision. The handling and use of corrosive materials in quantities exceeding 55 gallons (208 L) of liquid or 1,000 pounds (454 kg) of solid shall be under the personal supervision of a certificate of fitness holder. The storage of corrosive materials in quantities exceeding 55 gallons (208 L) of liquid or 1,000 pounds (454 kg) of solid shall be under the general supervision of a certificate of fitness holder.

SECTION FC 3102 DEFINITIONS

3102.1 Definition. The following term shall, for the purposes of this chapter and as used elsewhere in this code, have the meaning shown herein.

CORROSIVE MATERIAL. A material that causes full thickness destruction of human skin at the site of contact within a specified period of time when tested by methods set forth in DOTn regulations 49 CFR Sections 173.136 and 173.137, or a liquid that has a severe corrosion rate on steel or aluminum based on the criteria set forth in DOTn regulation 49 CFR Section 173.137(c)(2).

SECTION FC 3103 GENERAL REQUIREMENTS

3103.1 Quantities not exceeding the maximum allowable quantity per control area. The storage, handling and use of corrosive materials in amounts not exceeding the maximum

allowable quantity per control area indicated in FC2703.1 shall be in accordance with FC 2701, 2703 and 3101.

3103.2 Quantities exceeding the maximum allowable quantity per control area. The storage, handling and use of corrosive materials in amounts exceeding the maximum allowable quantity per control area indicated in FC2703.1 shall be in accordance with this chapter and FC Chapter 27.

SECTION FC 3104 STORAGE

3104.1 Indoor storage. Indoor storage of corrosive materials in amounts exceeding the maximum allowable quantity per control area indicated in FC Table 2703.1.1(2), shall be in accordance with FC 2701, 2703, 2704 and this chapter.

3104.1.1 Liquid-tight floor. In addition to the provisions of FC2704.12, floors in storage areas for corrosive liquids shall be of liquid-tight construction.

3104.2 Outdoor storage. Outdoor storage of corrosive materials in amounts exceeding the maximum allowable quantity per control area indicated in FC Table 2703.1.1(4) shall be in accordance with FC 2701, 2703, 2704 and this chapter.

3104.2.1 Aboveground outdoor storage tanks. Aboveground outdoor storage tanks exceeding an aggregate quantity of 1,000 gallons (3785 L) of corrosive liquids shall be provided with secondary containment in accordance with FC2704.2.2.

3104.2.2 Distance from storage to exposures. Outdoor storage of corrosive materials shall not be within 20 feet (6096 mm) of buildings not associated with the manufacturing or distribution of such materials, lot lines, public streets, private roads or means of egress. A 2-hour fire barrier wall without openings or penetrations, and extending not less than 30 inches (762 mm) 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.

SECTION FC 3105 HANDLING AND USE

3105.1 Indoor use. The indoor handling and use of corrosive materials in amounts exceeding the maximum allowable quantity per control area indicated in FC Table 2703.1.1(2) shall be in accordance with FC 2701, 2703, 2705 and this chapter.

3105.1.1 Liquid transfer. Corrosive liquids shall be transferred in accordance with FC2705.1.10.

3105.1.2 Ventilation. When corrosive materials are dispensed or used, mechanical exhaust ventilation in accordance with FC2705.2.1.1 shall be provided.

3105.2 Outdoor use. The outdoor handling and use of corrosive materials in amounts exceeding the maximum allowable quantity per control area indicated in FC Table 2703.1.1(4) shall be in accordance with FC 2701, 2703, 2705 and this chapter.

3105.2.1 Distance from use to exposures. Outdoor handling and use of corrosive materials shall be located in accordance with FC3104.2.2.