Blue 2021 IFC New Language, Green 2021 WA State Amendment, Red Current 2018 Seattle amendments, Purple Proposed 2021 Seattle Amendments

# CHAPTER 54 CORROSIVE MATERIALS

User note:

About this chapter: Chapter 54 addresses the hazards of corrosive materials that have a destructive effect on living tissues. Though corrosive gases exist, most corrosive materials are solid or liquid and classified as either acids or bases (alkalis). These materials may pose a wide range of hazards other than corrosivity, such as combustibility, reactivity or oxidizing hazards, and must conform to the requirements of this code with respect to all of their known hazards. The focus of this chapter is on materials whose primary hazard is corrosivity; that is, the ability to destroy or irreparably damage living tissue on contact.

## SECTION 5401 GENERAL

**5401.1 Scope.** The storage and use of *corrosive* materials shall be in accordance with this chapter. *Compressed gases* shall also comply with Chapter 53.

#### **Exceptions:**

- 1. Display and storage in Group M and storage in Group S occupancies complying with Section 5003.11.
- 2. Stationary storage battery systems in accordance with Section 1207.
- 3. This chapter shall not apply to R-717 (ammonia) where used as a refrigerant in a refrigeration system (see Section 608).

5401.2 Permits. Permits shall be required as set forth in Section 105.5.

## SECTION 5402 DEFINITION

**5402.1 Definition.** The following term is defined in Chapter 2: **CORROSIVE.** 

#### SECTION 5403 GENERAL REQUIREMENTS

**5403.1 Quantities not exceeding the maximum allowable quantity per control area.** The storage and use of *corrosive* materials in a mounts not exceeding the *maximum allowable quantity per control area* indicated in Section 5003.1 shall be in accordance with Sections 5001, 5003 and 5401.

**5403.2** Quantities exceeding the maximum allowable quantity per control area. The storage and use of *corrosive* materials in amounts exceeding the *maximum allowable quantity per control area* indicated in Section 5003.1 shall be in accordance with this chapter and Chapter 50.

## SECTION 5404 STORAGE

**5404.1 Indoor storage.** Indoor storage of *corrosive* materials in amounts exceeding the *maximum allowable quantity per control area* indicated in Table 5003.1.1(2), shall be in accordance with Sections 5001, 5003 and 5004 and this chapter.

**5404.1.1 Liquid-tight floor.** In addition to the provisions of Section 5004.12, floors in storage areas for *corrosive* liquids shall be of liquid-tight construction.

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**5404.2 Outdoor storage.** Outdoor storage of *corrosive* materials in a mounts exceeding the *maximum allowable quantity per control area* indicated in Table 5003.1.1(4) shall be in accordance with Sections 5001, 5003 and 5004 and this chapter.

**5404.2.1** Above-ground outside storage tanks. Above-ground outside storage tanks exceeding an aggregate quantity of 1,000 gallons (3785 L) of *corrosive* liquids shall be provided with secondary containment in accordance with Section 5004.2.2.

**5404.2.2 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, public alleys, *public ways* or *means of egress*. A 2-hour *fire barrier* 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 5405 USE

**5405.1 Indoor use.** The indoor use of *corrosive* materials in a mounts exceeding the *maximum allowable quantity per control area* indicated in Table 5003.1.1(2) shall be in a coordance with Sections 5001, 5003 and 5005 and this chapter.

**5405.1.1 Liquid transfer.** *Corrosive* liquids shall be transferred in a ccordance with Section 5005.1.10.

**5405.1.2 Ventilation.** Where *corrosive* materials are dispensed or used, mechanical exhaust ventilation in a ccordance with Section 5005.2.1.1 shall be provided.

**5405.2 Outdoor use.** The outdoor use of *corrosive* materials in a mounts exceeding the *maximum allowable quantity per control area* indicated in Table 5003.1.1(4) shall be in accordance with Sections 5001, 5003 and 5005 and this chapter.

**5405.2.1 Distance from use to exposures.** Outdoor use of *corrosive* materials shall be located in accordance with Section 5404.2.2.