

STORAGE OF CALCIUM CARBIDE

ID#1402

ERG Guide #138

Classification: High Hazard NFPA 101-6.2.2.4)

Hazards: Water-Reactive; Flammable

Description: Dangerous when wet. Reactive, corrosive, flammable.

Usual storage method: Metal cans and Drums.

Chemical Formula: CaC₂

Plans Reviewer:

- ❑ Egress capacity based on .7 inches/person for stairs or .4"/person for level components and ramps (NFPA 101-7.11.2)
- ❑ There must be 2 means of egress for each building UNLESS:
 - Space does not exceed 200 square feet
 - AND occupant load is less than 3 people
 - AND travel distance to the door is less than 25 feet (NFPA 101-7.11.3)
- ❑ Means of egress for rooms/spaces that do NOT meet the above requirements may not have dead ends in corridors (7.11.4)
- ❑ Doors with occupant loads greater than 5 persons may have doors with lock and latch ONLY if panic hardware or fire exit hardware is provided per 7.2.1.7
- ❑ At least 50% of the required egress capacity shall be located independent of the main entrance/exit doors.

Inspectors:

- ❑ High hazard commodities without protective containers shall not be stored or displayed within 100 feet of the main entrance/exit doors (NFPA 36.4.5.3.2)
- ❑ There must be in effect an approved written plan for emergency egress and relocation of occupants. All employees shall be instructed and periodically drilled with respect to their duties in the case of an emergency. (NFPA 36.4.5.6)

For Mercantile Occupancies storing this substance:

- ❑ In class A or B mercantile occupancies, employees must be periodically trained for drills. (101-36.7.1)
- ❑ Employees must be periodically trained in use of extinguishers. (36.7.2)
- ❑ Bulk mercantile occupancies must have a fire alarm. (36.4.5.4.1)

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