

# LHCFD NFPA 704 Signage Requirements

## By Type of Hazardous Material



**5003.5 Hazard Identification Signs:** Unless otherwise exempted by the LHC *Fire Code Official (FCO)*, visible **hazard identification signs** as specified in **NFPA 704** for the specific material contained shall be placed on stationary containers and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled in quantities requiring a permit and at specific entrances and locations designated by the FCO. Where conflicts exist in regulations regarding threshold quantities signage, the most stringent requirements shall prevail.

| Type of Material   | Class                        | Threshold Amount Exceeding   | 2012 IFC Sections                                       |
|--|------------------------------|--|---|
| <b>Combustible Liquids</b>   | (2) II/III-A<br>(1) III-B    | 110 gallons<br>220 gallons   | 105.5.16  |
| <b>Corrosive Materials</b><br>Gases<br>Liquids<br>Solids   |                              | 200 cu. ft.<br>55 gallons<br>1000 lbs.   | 105.6.8<br>105.6.20<br>105.6.20                         |
| <b>Cryogenic Fluids</b><br>Flammable<br>Inert<br>Oxidizing<br>Physical or Health Hazards (Other)                       |                              | >1 gallon indoors / 60 gallons outdoors<br>60 gallons indoors / 500 gallons outdoors<br>10 gallons indoors / 50 gallons outdoors<br>Any Amount                         | 105.6.10<br>105.6.10<br>105.6.10<br>105.6.10            |
| <b>Explosive Materials</b><br><b>Fireworks</b><br><b>Pyrotechnic Materials</b>   |                              | Any Amount<br>Any Amount<br>Any Amount   | 105.6.14<br>5601.1.3 & 5609                             |
| <b>Flammable Materials</b><br>Gases<br>Liquids<br>Solids   | 4&3 / 2 / 1<br>I<br>4&3/2/1  | 1,000 cu. ft. / 2,000 cu. ft. / 4,000 cu. ft.; @NTP<br>55 gallons Class IA, IB, IC<br>500 lbs. / 1,000 lbs. / 2,000 lbs.   | 105.6.8<br>105.6.16 &<br>105.6.20                       |
| <b>Highly Toxic Materials</b><br>Gases<br>Liquids<br>Toxic Solids  |                              | Any Amount<br>Any Amount<br>Any Amount   | 105.6.8<br>105.6.20<br>105.6.20                         |
| <b>Inert &amp; Simple Asphyxiate Compressed Gases</b>  |                              | 6,000 cu. ft. @ NTP  | 105.6.8   |
| <b>LP-Gas (Includes Propane)</b>   |                              | 50 cu. ft. in/out doors / 500 gallons (R-3 Occ's)<br>1 cubic foot propane = 0.0278 gallons propane<br>1 gallon propane = 35.97 cubic feet propane                      |   |
| <b>Organic Peroxides</b><br>Liquids / Solids<br>Class I & II<br>Class III<br>Class IV<br>Class V                       | I & II<br>III<br>IV<br>V     | Any Amount<br>1 gallon / 10 lbs.<br>2 gallons / 20 lbs.<br>Unlimited   | 105.6.20<br>105.6.20<br>105.6.20                        |
| <b>Oxidizing Materials</b><br>Gases (Including Oxygen)<br>Liquids / Solids<br>Class 4<br>Class 3<br>Class 2<br>Class 1 | <br><br><br>4<br>3<br>2<br>1 | 504 cu. ft. @ NTP<br>Any Amount<br>1 gallon / 10 lbs.<br>10 gallons / 100 lbs.<br>55 gallons / 500 lbs.  | 105.6.8<br>105.6.20<br>105.6.20<br>105.6.20<br>105.6.20 |
| <b>Pyrophoric Materials</b><br>Gases, Liquids & Solids   |                              | Any Amount   | 105.6.20  |
| <b>Radioactive Materials</b>   |                              | Any Amount   |   |
| <b>Toxic Materials</b><br>Gases<br>Liquids<br>Solids   |                              | Any Amount<br>10 gallons<br>100 lbs.   | 105.6.8<br>105.6.20<br>105.6.20                         |
| <b>Unstable (Reactive) Materials</b><br>Liquids / Solids / Gases<br>Class 4<br>Class 3<br>Class 2<br>Class 1           | <br><br>4<br>3<br>2<br>1     | <br><br>100 pounds / 10 gallons/ 50 cu. Ft.<br>100 pounds / 10 gallons/ 50 cu. Ft.<br>500 pounds / 55 gallons/ 1,000 cu. Ft.<br>500 pounds / 55 gallons/ 1,000 cu. Ft. | <br><br>105.6.20<br>105.6.20<br>105.6.20<br>105.6.20    |
| <b>Water-Reactive Materials</b><br>Liquids & Solids<br>Class 3<br>Class 2<br>Class 1                                   | <br><br>3<br>2<br>1          | <br><br>Any Amount<br>5 gallons / 50 lbs.<br>55 gallons / 500 lbs.   | <br><br>105.6.20<br>105.6.20<br>105.6.20                |

## ARIZONA TIER TWO CHEMICAL REPORTING



### Emergency Planning and Community Right-to-Know Act (EPCRA) Hazardous Chemical Inventory Reporting Requirements Per EPCRA §311-312

Facilities with chemicals in quantities that equal or exceed the following thresholds must report:

- For **Gasoline** (all grades combined) at a retail gas station, the threshold level is **75,000** gallons, if the tank(s) was stored entirely underground and was in compliance at all times during the preceding calendar year with all applicable Underground Storage Tank (UST) requirements at 40 CFR part 280 or requirements of the State UST program approved by the Agency under 40 CFR part 281.
- For **Diesel Fuel** (all grades combined) at a retail gas station, the threshold level is **100,000 gallons**, if the tank(s) was stored entirely underground and the tank(s) was in compliance at all times during the preceding calendar year with all applicable UST requirements at 40 CFR part 280 or requirements of the State UST program approved by the Agency under 40 CFR part 281.
- For **Extremely Hazardous Substances (EHSs)**(40 CFR part 355 [Appendix A](#) and [Appendix B](#) (PDF)), either 500 pounds or the Threshold Planning Quantity (TPQ), whichever is lower.
- For **All Other Hazardous Chemicals**: 10,000 pounds

Facilities that need to submit **MSDSs** (or **SDSs**) or the list of hazardous chemicals under **§311**, also need to submit an Annual Inventory Report for the same chemicals (EPCRA §312). This Inventory Report must be submitted to the **SERC, LEPC** and **LHCFD** by **March 1<sup>st</sup>** of each year.

#### Arizona State Emergency Response Commission Contacts

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## NFPA 704 Standard System for the Identification of the Hazards of Materials for Emergency Response

### NFPA 704 Signage Requirements

**§5003.5.1 Markings.** Individual containers, cartons or packages shall be conspicuously marked or labeled in an approved manner.

Rooms or cabinets containing compressed gases shall be conspicuously labeled: **COMPRESSED GAS**.

**§5003.6 Signs.** Required signs and markings shall not be obscured or removed, shall be in English or in symbols allowed by the IFC, shall be durable, and the size, color and lettering shall be approved.

Refer to your MSDS/SDS for the **specific hazard ratings** for the materials requiring **NFPA 704 Hazard Identification**.

The **size** of the placard or label is dependent on the distance at which the hazard ratings must be legible. The FCO will provide guidance on both the size of the hazard ratings, relative to the size of the placard/label, based on the distance at which the ratings are legible. For minimum standards, see below.

| Distance at which hazard ratings are legible (size)        | Minimum size of hazard ratings numbers required |
|--|---|
| Indoor Labels & Placards<br><b>8" x 8"</b> minimum diamond | Use <b>3 inch Black</b> numbers                 |
| Building Placards <b>15"x15"</b> minimum diamond           | Use <b>6 inch Black</b> numbers                 |

FIGURE 704 9.1 (c) Minimum Size of Numerals for Legibility at Distance.

