



## Comparison of NFPA 704 and HazCom 2012 Labels

|                                                                         |  NFPA 704                                                                                                                                                 |  HazCom 2012                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose                                                                 | Provides basic information for emergency personnel responding to a fire or spill and those planning for emergency response.                                                                                                                | Informs workers about the hazards of chemicals in workplace under normal conditions of use and foreseeable emergencies.                                                                                                                                                                                              |
| Number System:<br>NFPA Rating<br>and OSHA's<br>Classification<br>System | 0-4<br>0-least hazardous<br>4-most hazardous                                                                                                                                                                                               | 1-4<br>1-most severe hazard<br>4-least severe hazard<br><ul style="list-style-type: none"> <li>The Hazard category numbers are NOT required to be on labels but are required on SDSs in Section 2.</li> <li>Numbers are used to CLASSIFY hazards to determine what label information is required.</li> </ul>         |
| Information<br>Provided on Label                                        | <ul style="list-style-type: none"> <li>Health-Blue</li> <li>Flammability-Red</li> <li>Instability-Yellow</li> <li>Special Hazards*-White</li> </ul> <p>*OX Oxidizers<br/>W Water Reactives<br/>SA Simple Asphyxiants</p>                   | <ul style="list-style-type: none"> <li>Product Identifier</li> <li>Signal Word</li> <li>Hazard Statement(s)</li> <li>Pictogram(s)</li> <li>Precautionary statement(s); and</li> <li>Name address and phone number of responsible party.</li> </ul>                                                                   |
| Health Hazards on<br>Label                                              | Acute (short term) health hazards ONLY.<br><br>Acute hazards are more typical for emergency response applications.<br><br>Chronic health effects are not covered by NFPA 704.                                                              | Acute (short term) and chronic (long term) health hazards. Both acute and chronic health effects are relevant for employees working with chemicals day after day. Health hazards include acute hazards such as eye irritants, simple asphyxiants and skin corrosives as well as chronic hazards such as carcinogens. |
| Flammability/<br>Physical Hazards on<br>Label                           | NFPA divides flammability and instability hazards into two separate numbers on the label.<br><br>Flammability in red section<br>Instability in yellow section                                                                              | A broad range of physical hazard classes are listed on the label including explosives, flammables, oxidizers, reactives, pyrophorics, combustible dusts and corrosives.                                                                                                                                              |
| Where to get<br>information to place<br>on label                        | Rating system found in NFPA Fire Protection Guide to Hazardous Materials OR<br>NFPA 704 Standard System for Identification of the Hazards of Materials for Emergency Response 2012 Edition. Tables 5.2, 6.2, 7.2 and Chapter 8 of NFPA 704 | OSHA Hazard Communication Standard 29 CFR 1910.1200 (2012).<br><br>1) Classify using Appendix A (Health Hazards) and Appendix B (Physical Hazards)<br>2) Label using Appendix C                                                                                                                                      |
| Other                                                                   | The hazard category numbers found in section 2 of the HC2012 compliant SDSs are NOT to be used to fill in the NFPA 704 diamond.                                                                                                            | Supplemental information may also appear on the label such as any hazards not otherwise classified, and directions for use.                                                                                                                                                                                          |
| website                                                                 | <a href="http://www.nfpa.org/704">www.nfpa.org/704</a>                                                                                                                                                                                     | <a href="http://www.osha.gov">www.osha.gov</a> OR<br><a href="http://www.osha.gov/dsg/hazcom/index.html">www.osha.gov/dsg/hazcom/index.html</a>                                                                                                                                                                      |

For more information:



National Fire Protection Association  
[www.nfpa.org](http://www.nfpa.org) | 800.344.3555



Occupational Safety  
and Health Administration

U.S. Department of Labor  
[www.osha.gov](http://www.osha.gov) | 800.321.OSHA (6742)



The substance: "NOMIXUP 7042012"

**To create an OSHA label per HazCom 2012:**

**Step 1:** Perform the classification in accordance with Appendix A: Health Hazards & Appendix B Physical Hazards of 29 CFR 1910.1200 - this is where you find the criteria for each hazard class and hazard category.

Class: Flammable Gas, Category 1

Class: Carcinogen, Category 1B

Class: Specific Target Organ Toxicity (Single Exposure), Category 3

Class: Substances and Mixtures Which, in Contact with Water, Emit Flammable Gases, Category 3

**Step 2:** Gather labeling information (Pictograms, Signal Word, Hazard Statements) from Appendix C of 29 CFR 1910.1200 based on the chemical's hazard class and category.

**Step 3:** Create the Label

|                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identifier: NOMIXUP 7042012                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DANGER!                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hazard Statements:                                                 | Extremely Flammable Gas<br>May Cause Cancer<br>May Cause Respiratory Irritation<br>In Contact with Water Releases Flammable Gas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Precautionary Statements:                                          | Keep away from heat/sparks/open flames/hot surfaces. No Smoking<br>Obtain special instructions before use.<br>Do not handle until all safety precautions have been read and understood.<br>Avoid breathing vapors and mist.<br>Wear protective gloves and eye protection.<br>If inhaled: Remove person to fresh air and keep comfortable for breathing.<br>Call poison center/doctor if you feel unwell.<br>Leaking Gas Fire: Do not extinguish unless leak can be stopped safely.<br>Eliminate all ignition sources if safe to do so.<br>Store in tightly closed container in a well-ventilated place, locked up.<br>Use outdoors or use in a well-ventilated place.<br>Dispose of contents in accordance with local/regional/national regulations. |
| XYZ Chemical Company 123 Main St. Anywhere, NY, USA 1-800-400-1111 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**To Create NFPA 704 label:**

**Step 1:** Collect information on hazards from applicable sections of SDS. Some SDSs may provide the NFPA diamond symbol with hazard rating numbers filled in already. Note: Do NOT use the hazard category numbers given in section 2 of HazCom 2012 compliant SDS on 704 label!

If the diamond is not provided on the SDS you can obtain the information under the following sections of the SDS. Note that additional information may be provided in other sections of the SDS.

- Health hazard information under Section 11
- Flammability information under Section 9
- Instability information under Section 10
- Special information under Section 9, 10, 11

**Step 2:** Obtain current edition copy of NFPA 704 or view on line at [www.nfpa.org/704](http://www.nfpa.org/704).

Compare the criteria on the SDS sections as shown above with the criteria shown in Tables 5.2 (Health), 6.2 (Flammability), 7.2 (Instability) and 8.2 (Special Hazards)

**Step 3:** Place numbers for the degree of hazard associated with the criteria obtained in Step 2 in the correct quadrant of NFPA 704 placard.

NFPA Label for NOMIXUP 7042012



For more information:



National Fire Protection Association  
[www.nfpa.org](http://www.nfpa.org) | 800.344.3555



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