

CAMEO Chemicals

Designed to assist first responders and emergency planners get key information quickly, CAMEO Chemicals provides response recommendations and hazard predictions for thousands of hazardous materials.

Key Program Features

- **Extensive Chemical Database:** CAMEO Chemicals uses a chemical database, which contains response recommendations for thousands of chemicals. Find a chemical of interest by searching on a name, identification number, or other search criteria.
- **Critical Response Information:** Chemical datasheets provide physical properties, health hazards, information about air and water hazards, and recommendations for firefighting, first aid, and spill response. UN/NA datasheets provide response information from the Emergency Response Guidebook and shipping information from the Hazardous Materials Table (49 CFR 172.101).
- **Chemical Reactivity:** This tool predicts what hazards could arise if chemicals were to mix.
- **Online and Desktop Versions:** Use CAMEO Chemicals online to get quick, convenient access to all of the response datasheets and the reactivity prediction tool. All of the same functionality is also included in a desktop version that you can download and then run from your computer without an Internet connection.

CAMEO Chemicals was developed by NOAA in partnership with the U.S. Environmental Protection Agency and the U.S. Coast Guard.

Chemical Datasheets with Critical Response Information

Each chemical datasheet contains:

- Chemical identifiers (such as CAS numbers)
- Hazards
- Response recommendations
- Physical properties
- Regulatory information
- Alternate chemical names

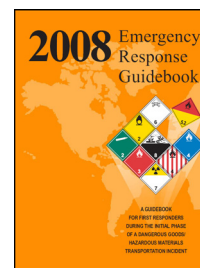
The screenshot shows the CAMEO Chemicals interface for Chlorine. It includes a search bar, navigation links (Home, Help, Search Chemicals, MyChemicals), and a detailed chemical datasheet. The datasheet for Chlorine (UN/NA Number 1017, CAS Number 7782-50-5) includes a hazard diamond (0, 4, 0, 0), chemical identifiers, and response information such as NFPA 704: Red 0 and Flammability: Will not burn.

UN/NA Datasheets

Each UN/NA datasheet represents a single UN/NA number, and includes information from two sources:

Emergency Response Guidebook

- Material names
- Response guides
- Initial isolation and protective action distances
- Toxic-by-inhalation gases
- Polymerization hazards



Hazardous Materials Table (49 CFR 172.101)

- Proper shipping names
- Hazard classes and divisions
- Placard and label information

Predicting Reactivity Hazards

You can add chemicals to the MyChemicals collection to see what hazards (such as explosions or toxic gases) might occur if the chemicals were mixed together.

MyChemicals Collection

1. [1,3-BUTADIENE](#)
2. [CHLORINE](#)
3. [GASOLINE](#)
4. [Water](#)

Compatibility Chart

	1,3-BUTADIENE		
CHLORINE	Explosive Flammable Heat generation Polymerization Toxic gas	CHLORINE	
GASOLINE		Explosive Flammable Heat generation Nonflammable, nontoxic gas Toxic gas	GASOLINE
Water		Combustion-enhancing gas Corrosive Heat generation Intense reaction Toxic gas	

The predicted hazards are summarized in the compatibility chart. You can click on any cell in the chart to get more detailed information about the predictions, including potential gas byproducts.

Getting CAMEO Chemicals

CAMEO Chemicals is available in two versions:

- **Online Version:** The CAMEO Chemicals site is available at <http://cameochemicals.noaa.gov>.
- **Downloadable Version:** Alternately, you can download CAMEO Chemicals as a desktop program from <http://response.restoration.noaa.gov/cameochemicals>. Once the program is installed on your Windows or Macintosh computer, you'll be able to run CAMEO Chemicals without an Internet connection.

Note: Only the downloadable version of CAMEO Chemicals can share information with other programs in the CAMEO® software suite.

CAMEO Chemicals Contact Information

For additional information:

<http://response.restoration.noaa.gov/cameochemicals>
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NOAA's Office of Response & Restoration—Protecting our Coastal Environment

**For further information about NOAA's Office of Response and Restoration,
please call (301) 713-2989 or visit our Web site at
response.restoration.noaa.gov**

