

# CAMEO Chemicals

**D**esigned 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 (ERG) and shipping information from the Hazardous Materials Table (49 CFR 172.101). On the UN/NA datasheets, ERG Response Guide PDFs are available in English, Spanish, and French.
- **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 is part of the CAMEO<sup>®</sup> software suite, which is developed jointly by the National Oceanic and Atmospheric Administration (NOAA) and the U.S. Environmental Protection Agency (EPA).

## 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

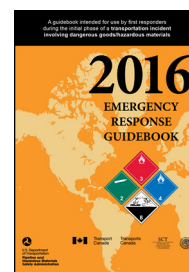
The screenshot shows the CAMEO Chemicals interface for Chlorine. It includes a navigation menu on the left with options like Home, Help, Search Chemicals, and MyChemicals. The main content area displays the chemical name 'CHLORINE' and three hazard diamonds: Inhalation Hazard 2, Oxidizer 5.1, and Corrosive 8. Below this, it lists chemical identifiers: CAS Number 7782-50-5, UN/NA Number 1017, DOT Hazard Label Poison Gas Oxidizer Corrosive, and USCG CHRIS Code CLX. An NFPA 704 table is also shown with a Diamond of 0, a Health hazard of 4, and a description 'Can be lethal.'

## 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 in English, Spanish, and French
- Initial isolation and protective action distances
- Toxic-by-inhalation gases
- Polymerization hazards

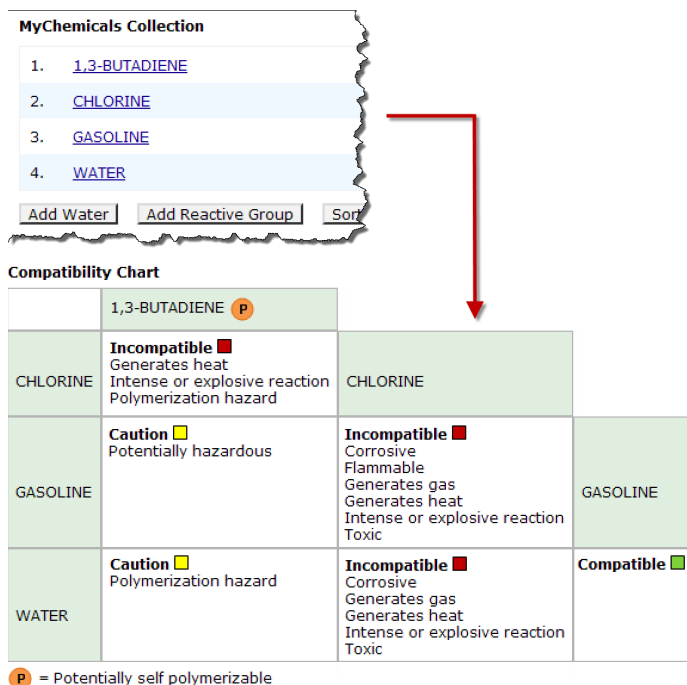


### Hazardous Materials Table (49 CFR 172.101)

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

## Predicting Reactivity Hazards

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



**MyChemicals Collection**

- 1,3-BUTADIENE
- CHLORINE
- GASOLINE
- WATER

Add Water Add Reactive Group Sort

**Compatibility Chart**

	1,3-BUTADIENE <span style="color: orange;">P</span>		
CHLORINE	<b>Incompatible</b> ■ Generates heat Intense or explosive reaction Polymerization hazard	CHLORINE	
GASOLINE	<b>Caution</b> ■ Potentially hazardous	<b>Incompatible</b> ■ Corrosive Flammable Generates gas Generates heat Intense or explosive reaction Toxic	GASOLINE
WATER	<b>Caution</b> ■ Polymerization hazard	<b>Incompatible</b> ■ Corrosive Generates gas Generates heat Intense or explosive reaction Toxic	<b>Compatible</b> ■

P = Potentially self polymerizable

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 online and desktop versions:

- **Online Versions:** The CAMEO Chemicals site is available at <https://cameochemicals.noaa.gov>. There is also a mobile version of the site available at <https://m.cameochemicals.noaa.gov>.
- **Desktop Versions:** CAMEO Chemicals can also be downloaded as a desktop program from <http://response.restoration.noaa.gov/cameochemicals>. Once the program is installed on your Windows or Mac computer, you'll be able to run CAMEO Chemicals without an internet connection.

Only the desktop version of CAMEO Chemicals can share information with other programs in the CAMEO suite.

## CAMEO Chemicals Contact Information

For additional information:  
<http://response.restoration.noaa.gov/cameochemicals>  
[orr.cameo@noaa.gov](mailto:orr.cameo@noaa.gov)

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*NOAA's Office of Response & Restoration—Protecting our Coastal Environment*

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For further information about NOAA's Office of Response and Restoration,  
please call (301) 713-2989 or visit our website at  
<http://response.restoration.noaa.gov>

