



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 (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, Desktop, and Mobile App Formats:** Use CAMEO Chemicals online to get quick, convenient access to all of the response datasheets and the reactivity prediction tool. If you don't want to rely on an internet connection while using CAMEO Chemicals, the same database and core functionality is included in both a desktop format (for your computer) and a mobile app format (for smart phones and tablets) that you can download and then run offline.

CAMEO Chemicals is part of the CAMEO® 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

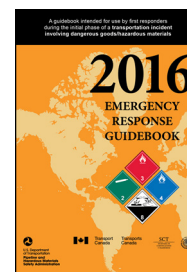
Diamond	Hazard	Value	Description
0	Health	4	Can be lethal.

UN/NA Datasheets

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

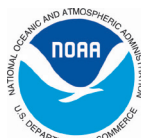
Emergency Response Guidebook

- Material names
- Response guides in English, Spanish, and French
- Initial isolation and protective action distances
- Toxic-by-inhalation gases
- Polymerization hazards



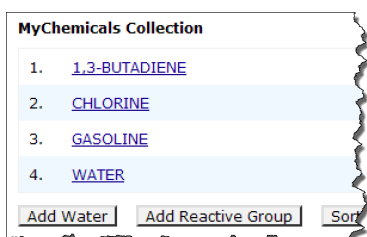
Hazardous Materials Table (49 CFR 172.101)

- 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.



Compatibility Chart

	1,3-BUTADIENE P		
CHLORINE	Incompatible ■ Generates heat Intense or explosive reaction Polymerization hazard	CHLORINE	
GASOLINE	Caution ■ Potentially hazardous	Incompatible ■ Corrosive Flammable Generates gas Generates heat Intense or explosive reaction Toxic	GASOLINE
WATER	Caution ■ Polymerization hazard	Incompatible ■ Corrosive Generates gas Generates heat Intense or explosive reaction Toxic	Compatible ■

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.

The chart above is how the reactivity predictions are shown in the website and desktop formats. At right, a picture from the mobile app shows how the reactivity predictions chart (for a different collection of chemicals) has been optimized to display on smaller screens.

CAMEO Chemicals Contact Information

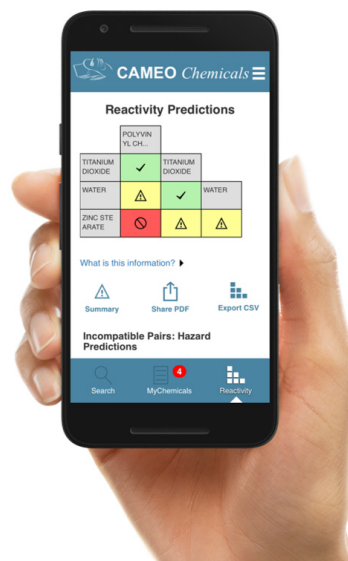
For additional information:

<https://response.restoration.noaa.gov/cameochemicals>
or orr.cameo@noaa.gov

Getting CAMEO Chemicals

CAMEO Chemicals is available in multiple formats:

- **Online Formats:** 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 Format:** Download CAMEO Chemicals from <https://response.restoration.noaa.gov/cameochemicals> to use it as a desktop program on your Windows or Mac computer. Once installed, you'll be able to run CAMEO Chemicals without an internet connection.
- **Mobile App Format:** CAMEO Chemicals can also be downloaded as a mobile app for smart phones and tablets for offline use. Get the app for iOS devices on the App Store and for Android devices on Google Play.



Note: Only the desktop format of CAMEO Chemicals can share information with the other programs in the CAMEO suite. A feature comparison table by format is available at <https://cameochemicals.noaa.gov/about>.

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 website at
<https://response.restoration.noaa.gov>

