

## CAMEOfm EXERCISES

### CAMEOfm—CHEMICAL LIBRARY

1. Open the Chemical Library
2. Find the following chemical information:

Chemical Name : \_\_\_\_\_

CAS # : 79-06-1

UN/NA# : \_\_\_\_\_

NFPA RATINGS:

FIRE : \_\_\_\_\_

HEALTH : \_\_\_\_\_

REACTIVE : \_\_\_\_\_

SPECIAL : \_\_\_\_\_

IDLH : \_\_\_\_\_

ERPG -2 : \_\_\_\_\_

TEEL-2 : \_\_\_\_\_

OTHER INFO: \_\_\_\_\_

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Chemical Name : \_\_\_\_\_

CAS # : \_\_\_\_\_

UN/NA# : \_\_\_\_\_

NFPA RATINGS:

FIRE : \_\_\_\_\_

HEALTH : \_\_\_\_\_

REACTIVE : \_\_\_\_\_

SPECIAL : \_\_\_\_\_

IDLH : \_\_\_\_\_

ERPG -2 : \_\_\_\_\_

TEEL-2 : \_\_\_\_\_

OTHER INFO: General Description contains the word "warfare"

The Search for “General Description contains warfare” (from page 1) should result in a “found set” of 5 chemicals. They are:

TABUN  
SARIN  
2,3-DIMERCAPTO-1-PROPANOL  
(E)-CROTONALDEHYDE  
MECHLORETHAMINE

Question 1: Is this all of the “WMD Agents” contained in the CAMEO Chemical Library? If not, what are some of the other WMD substances?

Question 2: Are all 5 of these “WMD agents”?

Question 3: What “properties” are similar for these 5 chemicals?

Question 4: Which, if any, of these are in the ALOHA Chemical Library?

## MARPLOT EXERCISE

This month is a “View Menu” review.

Open MARPLOT and display your own county map.

Open the View Menu and “Save Current View”  
Name the view “*your county name*, whole county view”

Use the Arrow Tool to select a point near the center of your county  
Open the View Menu and select “Set Scale”  
Set the “Current Window Width” to “10 miles”  
Save the view as “*your county name*, center 10 mile view”

Open the View Menu and select “Reference View” and “Set”  
Highlight “*your county name*, whole county view” and select “Set”

The reference view box should be displayed on your screen.

Use the Arrow Tool to “double-click” anywhere in the Reference View box

Notice that your active map view changes each time you click in the reference box. Notice, too, that your active “scale” remains constant.

Open the View Menu; select “Marked Point” and “Mark Focus Point”

Use the Arrow Tool to place your cursor some distance from the Focus Point

Open the View Menu; select “Marked Point” and “Distance to Focus Point”

Notice the Focus Point Lat / Long and the distance from the point your selected to the Focus Point are displayed in the bottom toolbar.

Turn off the Reference View and Clear the Marked Point

## **LandView 5 EXERCISE**

Open LandView and select the EPA database

Do a Search for TRI (Toxic Release Inventory) sites for your county

Show All on the Map

Select one TRI location

Find the nearest Hospital by doing a MARPLOT Search for objects “that are within” 10 miles of the “currently selected object”. If there are no hospital records found in this search, broaden the search area to 20 miles. Continue to broaden the search parameters until you locate the LandView 5 record for the nearest hospital.

# ANSWERS

## CAMEO answers

Chemical Name:                   ACRYLAMIDE

CAS #                               :       79-06-1

UN/NA#                           :       2074

NFPA RATINGS:

    FIRE                           :       2

    HEALTH                       :       2

    REACTIVE                   :       2

    SPECIAL                     :       BLANK

IDLH                             :       60 **mg/m<sup>3</sup>** (*notice this is not ppm!*)

ERPG -2                         :       blank

TEEL-2                         :       blank

OTHER INFO:

The Search should return 5 substances.

TABUN  
SARIN  
2,3-DIMERCAPTO-1-PROPANOL  
(E)-CROTONALDEHYDE  
MECHLORETHAMINE

Question 1: NO, there are several other WMD agents in the CAMEOfm Library. Some are:

RICIN                            VX  
ARSINE                         PHOSPHINE  
MUSTARD GAS                  CHLORINE  
ACROLEIN                      LEWISITE

However, (and I do get asked this question a lot), ANTHRAX is not in the Chemical Library.

Question 2: NO, some are NOT WMD products. In fact, one is an “antidote” for Lewisite.

Question 3: If you leave out the 2,3-DIMERCAPTO-1-PROPANOL because it is really not like the other chemicals, some interesting similarities and differences appear. I thought it was interesting that all 4 had TEEL values, but almost no other toxicity numbers, such as TLV, IDLH, etc. Some other properties are similar as well. MECHLORETHAMINE, SARIN, and TABUN have the same UN/NA number (2810), but have different CAS #. All are EHS, but only (E)-CROTONALDEHYDE is and RMP chemical.

Question 4: SARIN, MECHLORETHAMINE, and CROTONALDEHYDE are in the ALOHA Library.