

Lab Task: 40% of test, make sure you answer questions thoroughly. GOGGLES REQUIRED

TASK 1: ALL Observations and data should be reported on the answer sheet!

1. Obtain a sample of solid CuCl_2 from the supervisor, and using a beaker, collect a sample of at least 50mL of water. Record observations about what these things look like—include temperature and conductivity of the water
2. Mix the solid into the water, stir well.
3. Once the solid has dissolved, record temperature, conductivity and any other observations.
4. Keep the beaker and its contents for Task 2
5. Answer the following questions ON YOUR ANSWER page about task 1:
 - a. Was there a change in temperature, if so, how much did it change?
 - b. Was there a change in the conductivity?
 - c. What kind of compound is copper II chloride (CuCl_2)?
 - d. What evidence do you have to support your answer to c?
 - e. In TASK1, what type of change occurred? Justify your answer.
 - f. Suggest a method that could be used to separate the substance at the end back into the 2 substances you mixed.

TASK 2: ALL Observations and data should be reported on the answer sheet!

1. Collect a piece of aluminum foil from the supervisor. Make observations
2. Take the temperature of the contents in the beaker from Task 1.
3. Stir the aluminum foil into the contents of the beaker from Task 1.
4. Make observations as you are stirring, does the temperature change?
5. Once you feel that the change has stopped, take a final temperature and make observations.
6. Answer the following questions ON YOUR ANSWER page about task2:
 - a. What kind of change happened? Justify your answer
 - b. Did the temperature change? If yes, was the change exothermic or endothermic?
 - c. Which diagram (on your answer sheet) best represents what you saw?
 - d. Write a balanced equation that represents the change you saw. (tie breaker)

CLEANUP- You will pour the contents of your beaker into the waste container indicated by your supervisor. Do not pour anything down the drain. Make sure you wash your hands!