CHEMISTRY HONORS DESIGN A HANDWARMER LAB ACTIVITY

Prior to 4/3

- 1. Copy Ouestion
- 2. Read purpose
- 3. Create Safety Table for every Chemical you'll be using in the lab (Example at bottom of page)
 - a. NaOH e. NaCH₂CO₂
 - b. NH,NO, f. Na₂CO, c. CaCl₂ g. NH,Cl
 - d. Lici
- 4. Copy Cost of Chemicals

Solid	NH ₄ NO ₃	CaCl ₂	LiCI	NaCH ₂ CO ₂	Na ₂ CO ₃	NH ₄ Cl
Cost	19.50	11.25	68.30	27.30	8.05	12.11
CSN/BC ex						

(\$)/Kg

 Copy Pre Lab Procedure into Lab book in a procedure/observation t chart (paraphrase the procedure. You do not need to write it word for word)

The links of the SDS is found below

https://fscimage.fishersci.com/msds/21300.htm

http://archo.dfs.lps.org/Chemicals/Ammonium%20N trate.pdf

https://www.flinnsci.com/globalassets/flinn-scientific/all-free-pdfs/sds196_calcium-chloride.pdf/

https://www.fishersci.com/store/msds?partNumber=L121100&productDescription=LITHIUM+CHLORIDE+CE

RTIFD+100G&vendorId=VN00033897&countryCode=US&language=en

http://archp.dfs.lps.org/Chemicals/SodiumAcetateAnhydrous.pdf

https://www.flinn.sci.com/globalassets/flinn-scientific/all-free-pdfs/sds716_sodium-carbonate.pdf/

https://www.flinnsci.com/globalassets/flinn-scientifio/all-free-p.dfs/sds53_ammonium-chloride.pdf/

DESIGN A HAND WARMER LAB

Question: Which chemical should be used in the making of a hand warmer?

Purpose:

Your team is in charge of designing a hand warmer with the following criteria:

- 1. The hand warmer must contain 10 g of an ionic solid and an inner pouch filled with 40 mL of water.
- Activating the hand warmer must increase the temperature of the resulting solution by at least 20 °C
- Cost effectiveness and safety

Safety Precautions

Prior to experiment, a basic understanding of chemical hazards is needed. In general, avoid contact of all chemicals with eyes and skin. Wear chemical splash goggles. Wash hands thoroughly with soap and water before leaving the laboratory.

Pre Lab Procedure

- A. Working in pairs, determine the heat energy change for the dissolving of NaOH (ΔH...)
 - Determine the safety hazard for NaOH. Record the safety hazard in your lab book.

Designing A Hand Warmer Pre Lab Answers

Christian Drosten

Designing A Hand Warmer Pre Lab Answers:

Typography and Design for Newspapers $Rolf\ F.\ Rehe,1985$ Chronicle ,1953-03

2006, **Hi-fi News**

The Commercial and Financial

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