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1-8-00-452-1261

Flinn Suggested Disposal Methods

STUDIES INFORMATION

#1a Organic Acid Halides and Acid Anhydrides

Products in this class readily react with water, amines and alcohols. They are also generally corresive and their respons are lachrymators, Acid halides and acid anhydrides may be RCRA listed and/or characteristic waster due to their reactivity or flammability. Leftover organic acid derivatives remaining in an experiment may be hydrolyzed to water soluble products of low toxicity that can be flushed down the dissin. The reactions are exothermic; immerse the reaction vessel in lice water to control the heat.

Econoles.

Adipoyl chiloride and acetic anhydride

Saturated solution of sodium carbonate (200 g Nat-00v/L):

Materials Required

Hydrochloric acid, HCL3 M loe-water bath (optional)

Large glass or polyethylene container pit paper

Stirring rod Overview

Acid halides and acid anhyelicles are reactive derivatives of carbonylic acids. These substances react with water to form the original organic acid or its conjugate base in basic solution. Excess acid halide or acid anhydride emaining in a reaction mixture may be decomposed with saturated sodium carbonate solution. The acid anhydride or acid halide reacts with varier, and the products of that reaction, which are acids, immediately reactivith sodium carbonate to form a sait of the acid. Most carbonylic acid saits are innocuous and may be flushed down the disks. Gaseous carbon clinide is also produced, also forms, which will produce a fitzing as the reaction proceeds. The reaction of acetic anhydride proceeds as follows:

Note that one mole of sodium carbonate is required to fully neutralize one mole of the original acid halide or acid a mydride. To push the reaction to completion, a twofold molar excess of sodium carbonate is recommended. At 25 °C, a saturated sodium carbonate solution contains about 2 moles of sodium carbonate per liter of solution. Sodium hydroxide solution (2 M) may be substituted for saturated sodium carbonate in this procedure.

Both adippyl chloride and sebacoyl chloride contain two chlorine atoms per molecule. Use a fourfold molar excess of sodium carbonate solution to hydrolyze these compounds.

Procedure



Perform this procedure in a fume hood. Wear chemical splash goggles, chemical-resistant gloves and a lab coat or chemical-resistant agrees.



Place a saturated solution of sodium carbonate in a large glass or plastic container.

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Slowly add a few millilities or grams of the acid halide or antitydride to the container with it constaintly stiming. You can tell the decomposition reaction is occurring when the material begins to dissolve. The evolution of gaseous carbon dioxide should also be evident.



If a noticeable temperature rise is observed, place the container in an ice-water bath.



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Continue slow addition of the acid derivative while stirring until all the compound has been consumed.



When a clear solution has been obtained, cool it to soon temperature and neutralize to pH 7 with 3 M hidrechloric acid.



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Flush the neutral mixture down the drain with a 20 fold excess of water.

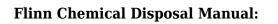
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