

Lessons Learn



What happened?

Aug.2020

Date: March 3rd 2007

Topics: mis-operation, explosion

Location:

At 8 o'clock in the evening on August 9th, 2007, when Li was preparing to dispose of a bottle of tetrahydrofuran a university laboratory, he did not check carefully and accidentally add a bottle of nitrate instead of tetrahydrofuran into sodium hydroxide. After one minute, there are some white smoke came out from the beaker. He closed the hood immediately, and the smoke turned into black foamy liquid. He asked a Post Doctor from his laboratory for help. Then the explosion occurred, the broken glasses from the hood cut their arms.

Cause of accidents: The accident was caused by the carelessness of the person who did not carefully check the chemical reagents to be used. Disordered drugs on the experimental platform and excessive drugs are also the main causes of this accident.



What have we learned from this?	What steps should we take?
<p>This is a typical mis-operation accident. It warns us that every step in the process of experimental operation must be taken carefully and seriously, and there must be no sloppy; The experimental bench and workbench must be kept clean and tidy, the unused Glassware must be placed on the reagent rack to prevent reagents from knocking over or misusing, which might cause accident.</p>	<p>(1) Before using any chemical, you must be familiar with the dangers of the chemical.</p> <p>(2) When using toxic organic solvents or corrosive reagents, operate in a fume hood, and use a splash mask to prevent accidents.</p> <p>(3) Keep the experimental area clean and tidy, and use water, electricity, gas, and fire in a normative way.</p> <p>(4) Reagent bottles must have obvious labels, and unused reagent bottles must be placed on the reagent rack.</p>
<p><i>Nothing we do is worth getting hurt for !</i></p>	