

Re: pirahna solution

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muha schreef:

- > Here is how to make the solution. 1) Hood with glass down, googles,
- > good gloves. If you are using thin latex gloves, double them.
- > 2) Remove all flamables. The mix explodes in contact with acetone and
- > other solvents. Remove stuff around, there may be some spilling. The
- > stuff ignites paper, so be carefull with wiping it out. Let the mix
- > expire overnight before cleaning the spill. Wash the whiping towels
- > immediately with water to avoid their self-ignition.
- > 3) Use large beaker to avoid overheating and spill because of
- > foaming-over. Take a large (1L) beaker with conc. H₂SO₄ 150mL. Put the
- > hood glass down, add 30% H₂O₂ 50 mL INTO the sulfuric acid (I know, but
- > believe me, this is the right order), mix it by gentle swirling the
- > beaker. At this point the mix becomes hot and bubbling. Use fresh
- > immediately. Leave the waste mixture in hood overnight to expire before
- > diluting it with ice water. Pour it to waster waste after diluting it,
- > never into organic waste.
- >
- > We use this mix to clean up dirty fritted filtration funnels. Again,
- > the glassware must be free of organic solvents to avoid fire or
- > explosion.
- >
- > Never make it in larger amounts, never store it but allways use fresh,
- > never work with it outside hood. If you want to know what would happen
- > to your face, you can drop a very small bit of paper into the mix and
- > watch it disappear in a puf of smoke as soon as it hits the mixture.

Wouldn't it be REALLY hazardous to have almost 200 ml of this stuff around? I once did an experiment by mixing approximately 0.2 ml of H₂SO₄ with 2 big drops of 30% H₂O₂ on a clean glass surface. I did not do this in a fume hood, but in a normal room. I saw little specks of light sometimes, probably because small dust particles, entering the liquid immediately were oxidized with evolution of a lot of heat. Next, I took a sheet of paper and put this on the liquid. It immediately went BOOM/CRACK and there was a hole in the sheet of paper. Luckily no fire, but that was my last experiment with concentrated H₂O₂/H₂SO₄ mixtures!

Wilco

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