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Saponification experiment lab report pdf format excel

Saponification experiment pdf.

Sensible safety precautions are absolutely essential. Another safety requirement for soapmaking – GOOD LIGHTING. Keep the gentle heat and the stirring going. And there you go – the cleanest soap pot you’re likely to see in a while! Note that the surface of the soap isn’t very pretty – this can be shaved off when cutting, and made into soapballs etc. Make sure the liquid oils are in the pot before you start heating – it’s safer and you don’t get burned patches appearing on the bottom of the pan that later transfer themselves to your soap. If this happens, stir it down, incorporating air as you stir – the air will cool the mix little by little, until you get the soap ‘turning’ as it did previously. IMPORTANT NOTE: This webpage assumes you are sufficiently experienced with cold process soapmaking and the safety issues associated with that addition; in particular, do not attempt hot process soapmaking without adequate clothing, ventilation, eye/face/skin protection, readily available supplies of copious amounts of cold running water, and a good 2-3 hours uninterrupted by children, well-meaning spouses, or pets. It hasn’t been coloured or fragranced (more on that below). This picture shows the pour far slower than I really do it. Our excuse: it was the middle of an Ozzie summer and over 40degreesC outside – he didn’t want to wear long pants when he wasn’t going to get a go of making soap.... Suddenly, as you heat and stir, instead of champagne bubbles, the mix will all at once ‘meld together’ as is shown in the picture above. Just as a matter of interest, I have left a pot for a couple of hours to go completely cold when I had to race out one time – I simply reheated it up through boiling to the champagne bubble stage again and all was fine..... This is the stage that it starts to smell good. But please do let me know if you can’t read the instructions, or if you have any other problems (including problems in *following* the instructions!!) Here’s my son Daniel. In order to translate the curds and oil into finished soap, you need to heat the pot. And it’s a lot of -extremely addictive- fun. I slowed the pour so that I could take the picture with the other hand before I ran out of lyewater! With cold process the temperatures of the oils and lyewater might matter, as might the rate of pour. It’s a good idea to turn off the heat now, and once again, don’t walk too far away, because..... If you carry on heating the soap, sometimes it doesn’t know when to stop rising after you turn the heat off..... And keep stirring ALL the time. The whole thing will keep turning quite nicely like this all by itself for a few minutes. Now, if you’ve completed saponification, the soap will be ready to use soon as it’s cooled and cut (try the tongue test – but be careful! If your tongue starts tingling 1/2 cm away from the soap – give it a week to cure and try again!) If you haven’t boiled off a sufficient amount of water, the soap will be ‘wet’ to cut, and will shrink somewhat when drying (if it’s wet, don’t pack in shrinkwrap straight away – not a pretty sight four weeks later!) The jury’s still out on fragrancng, but at this stage (thanks to some buddies from the Soap List!) I’ve experimented with fragrancng at around 100degreesC – any cooler and the soap wants to fracture rather than hold together, the fragrance doesn’t mix in properly, and the soap needs to be packed into the mold under pressure in order to avoid crumbling. If you want to superfat, now is the time to do it – a few ml of jojoba can add a marvellous ‘silkeness’ to the gloppy gel in your pot! If you heat much beyond this point, you can get a situation where the soap dries out too much and does not want to stick to itself in the mold, but crumbles instead. Right in the centre of the pot you can see there are still some larger bubbles happening; soon as these settle down to one or two spots only, then you can stop (relief!!) for a while. Result: Volcanoes of caustic mix jumping higher than my head, and etching of the base of the pot by the caustic solution. The first time I did this, the heat was too high, and I didn’t know enough to stir all the time. It’s my fond belief (never wrong yet!!) that no soap is ruined unless you’ve burned it in the pot (and that is utterly disgusting and I wouldn’t wish burned soap on my worst enemy!!) Here’s a close up of the soap ready to reheat. With Hot Process soap, you are doing two things in the pot – completely finishing the saponification process, *and* boiling off the excess water. You’ve got three layers here; the champagne bubbles, and on top of that the darker finished soap, and on top of that the whiter cooled finished soap. Those huge boiling bubbles that appeared when the mix first hit boiling point, have gradually reduced in size until the whole top of the pan is filled with frothy ‘champagne’ bubbles. Champagne bubbles starting to form, second time around. That top colour is the colour your finished, cooled and cut soap will be. Giddyay Trace. GENTLY. Pouring lye water into the melted oils. Next photo.... In hot process soapmaking, trace is sometimes present for a fraction of time – maybe 10 seconds or so – and sometimes you don’t get to see it at all, as the mix wooshes through trace to separation. Anyone who has a nice site with cp instructions, please let me know (apologies, I haven’t got enough time to search you out!) and I’ll include a link here. Once again, let me know if you want a link to a lye calculator on your site here. Daniel’s not wearing long trousers. You need to keep going for approximately 20 minutes from boiling point, to start with. At the time I took the photograph, I couldn’t. If this happens to you, try a little extra oil (for example I’ve sometimes added 50ml of Almond oil in a 1.7Kg oil batch if the final product seemed too dry) This is the way we glop the soap, glop the soap, glop the soap..... it’s almost like a rebatch, but it’s a delightful light colour, with no lumps of unmelted soap in it – the lighter bits are just cooler than the darker bits, and that disappears after the soap is cooled and cut. By breaking the surface of the soap, you can see that the champagne bubbles are continuing to work. What you can see in the middle is the champagne bubbles reaching the top surface of the mix, and the darker, cooling areas of finished soap separate in the middle and slide down the sides of the pot. ALL the time the pot is on the heat, eh. But it can be very dangerous if you get the highly caustic lye *anywhere* on your skin. (And no, they don’t make Bananas in Pyjamas plastic coats in adult size. NOT something you want to have happen to you. It’s a lot of fun, and it’s faster than cold process soap in that it (usually!) doesn’t require a cure time. Here’s a close up of that process. Have I frightened you off yet? With hot process, you pour lye as soon as the oils are melted, regardless of what temperatures you have for each component. This is separation. Note also that I’m using an all-veggie recipe (it’s what I call the ‘Ozzie Supermarket Shelf’ Recipe, as you can get everything you need at Coles or Action!) Anyone interested in the recipe, let me know, eh! If you’re wanting to put together your own recipe, there are a number of sites around that will let you do that; I personally use Therese Lott’s Excel Sap Calculator, which is just *brilliant* and very easy to use. By the time I smooshed it all down into the mold, it was a bit late for a few lumps of soap. It’s like a gel, almost.... See the curds of soap, resting on the bottom of the pot, covered by the oil, and floating on the very surface is that scummy stuff – well, that’s the bit we want, folks – that’s finished soap. If you’re not dressed like this, or a reasonable approximation thereof, you’re not ready to make soap. The darker yellow swirls you can see are finished soap, and when the whole batch is finished, that’s what it will look like in the pot. Here we go. Repeat this ‘heat and stir-champagne bubble-turn off heat’ cycle until, all of a sudden, something else happens. (Exciting, isn’t it!) When the pot looks like this, it’s time to reheat. There could have been *anything* in that pot, eh. The heat’s been off for about 10 minutes now, the champagne bubbles are no longer breaking through the surface as the soap is turning in the pot. For newcomers to soap: Soapmaking is not rocket science. The pot is full of champagne bubbles, with some finished soap on top and the heat is turned OFF. You may choose to use a little less water than your recipe dictates if you are doing Hot Process soap – however it is wise to be sure that you have sufficient to completely dissolve the lye prior to pouring into the oils. Once again, wait until the champagne bubbles no longer break the surface of the soap before re-heating again. Here’s a close up. Once again, a gentle heat, and stir all the time the heat is on. Make sure you stir into all the corners and across all the base of the pot, to avoid volcanoes. This is Trace. This is the way we pour the lye into the water (note: **LYE into WATER** please – otherwise you could get an explosion – this mixture heats up incredibly!!) Yes, I can see I have a dirty pot here. So stir. List of References Saturated and unsaturated fats Hot Process Soap I’ve been making soap for a few years now, and recently I’ve been experimenting with Hot Process Soapmaking. (Well did you think I could take a picture of myself all dressed up in soapmaking gear?). Please also excuse the state of these pages – I’m primarily out to (finally!) get the pictures up and running – so, I’m after information rather than graphic brilliance right now. DON’T STOP HEATING. I’ve pictured a particularly ‘dry’ batch here to show you how the soap doesn’t want to stick to itself if it gets too cold, which is what happened to the surface whilst I was fiddling with the camera. Here’s a close up of the champagne bubbles. And it can try climbing out of the pot. Consistency of old petroleum jelly... but I’m getting ahead of myself. It burns. This is ready to pour – er, glop – into the mold. At this stage the soap is nearly done (YAAAY!!) and you just need to heat a little more to drive off some more of the water, and complete the saponification process. Ok the mix is now boiling merrily along. I’m not going to go into the finer details of cold process soapmaking at this stage. The heat is off, and the pot is turning the soap by itself. Yet.) Did you spot the deliberate mistake? But don’t *you* try this at home folks – bare skin is a no-no where lye is concerned! Here’s the oils, ready to go. You can leave the pot for about 10 minutes – but don’t go too far away – you’ll see why later on! Looks like a cake baking, doesn’t it! The exothermic (giving off heat) reaction of saponification is continuing the process all by itself, even though there’s no heat being applied to the pot.

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