

## Recipes

This chapter contains recipes to be used with the biodiesel byproducts. The base recipes are a good starting point in designing your own recipes using the biodiesel byproducts. You might use the traditional ingredients recipes to give you an idea of how you might formulate your own recipe using both the byproducts and traditional ingredients.

These recipes have been formulated with the 26% saponifiable elements SAP value for the glycerin byproduct. If your saponifiable elements percentage is different you will need to adjust the lye for the byproducts. Lye values are represented as (glycerin lye - additional ingredients). This is to allow you to modify the glycerin lye to match your own SAP value.

Pre-diluted method for recipes are using 30% for bar soap and 30% for liquid soap.

Final dilution for all Liquid recipes is 50:50 soap to water.

A simple way to add transparency to the bar recipes would be to use  $\frac{1}{2}$  the water and replace it with alcohol. Then follow the adding transparency section of Chapter 6 *Making Your Soap*.

**Bar Soap Note:** In most cases palmitic acid can be substituted for stearic acid. Be sure to adjust the lye when making substitutions. These bar soap recipes are based on a 80:20 ratio of byproduct to hardening ingredients. Adjust to suit your bar soap needs.

## Base Recipes

### Bar Soap

#### Basic Glycerin Byproduct Recipe

64oz Glycerin Byproduct

2.37oz NaOH (2.37oz - 0oz)

11.14oz Water for Lye (23.94 for Pre-Diluted Method)

1oz sent of your choice