

How to make hand made soap

school year 2016-2017 Mr. Luigi Cenerelli

translation Mrs. Pina Zito



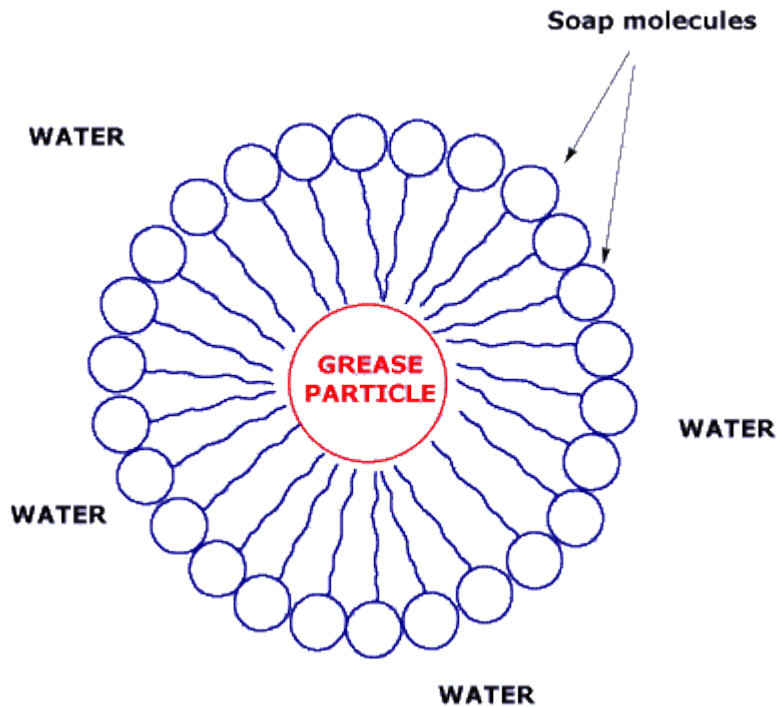
BRIEF HISTORY OF SOAP

Soap exists since the beginning of human history, it was made by animal fat.

It was invented by Romans and Celts.



THE MOLECULES OF SOAP...



The molecules of soap are formed by a polar head that's hydrophilic and a non-polar tail that's hydrophobic. The soap cleans because each molecule of fat has a negative charge which prevents the grease particles to come together.

INGREDIENTS:

1 Kg OF OLIVE OIL



128 g OF SODIUM HYDROXIDE (ALSO CALLED LYE)



300 g OF WATER



OPTIONAL INGREDIENTS: ESSENTIAL OILS



RICE FLOUR



DRY FLOWERS



EQUIPMENT

DIGITAL SCALE



STAINLESS STEEL
THERMOMETER



**STAINLESS
STEEL POT**



JUG



WHISK

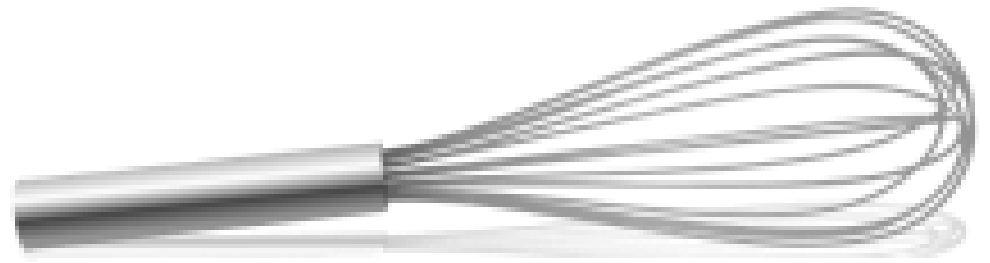


TABLE
SPOON



TOWELS



IMMERSION BLENDER



TETRA PAK CONTAINERS



RUGS AND TOWELS



PROTECTIONS



LATEX GLOVES

SAFETY MASK

GOGGLES

WHAT NOT TO DO!

USE COPPER,
ALLUMINIUM,
OR IRON



WASH THE TOOLS
IN THE
DISHWASHER



WORK AREA: KITCHEN

-COVER IT WITH
NEWSPAPER AND TOWELS

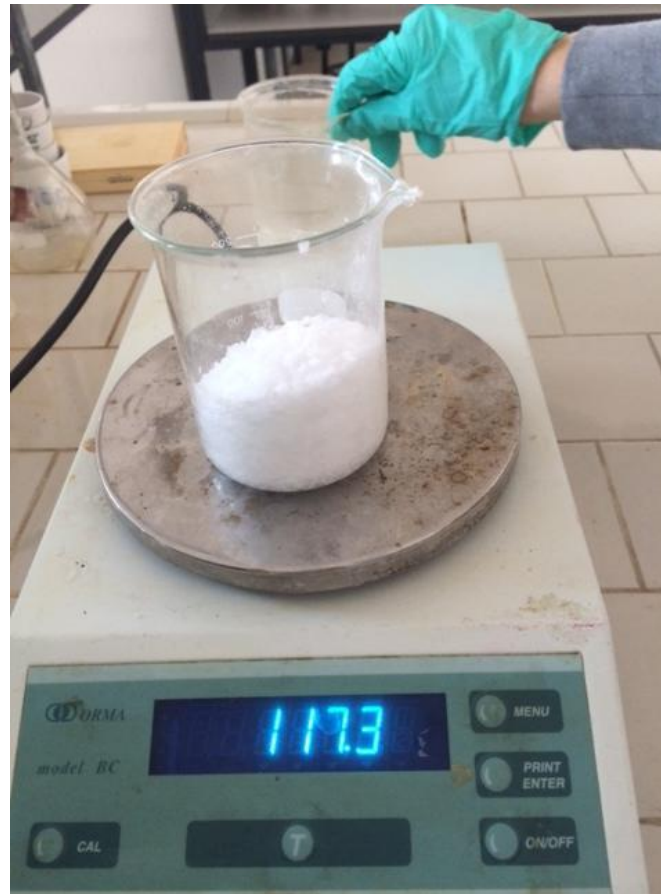


-TAKE EVERYTHING YOU
NEED



PROCEDURE

MISURE WITH PRECISION THE INGREDIENTS



STIR THE LYE WITH THE WATER
(NOT THE CONTRARY!)



PREPARE THE OIL, PUT IT IN A STEEL POT
AND TURN ON THE STOVE



POUR THE LYE IN THE OIL AND MIX



MIX

(NOW YOU CAN ADD THE OPTIONAL INGREDIENTS)



PUT THE MIXTURE INTO THE MOLD



COVER THE MOLD WITH SOME TOWELS FOR 48H, THEN REMOVE THE SOAP FROM THE MOLD



WAIT FOR 6-8 WEEKS BEFORE USING THE SOAP

