## A BUBBLE IS A THIN FILM OF SOAPY WATER...

The surface film of a bubble is made of three layers.

A thin layer of water $\left(\mathrm{H}_{2} \mathrm{O}\right)$ is sandwiched between two layers of detergent molecules (e.g. sodium laureth sulfate).

Detergent molecules are amphiphilic, meaning one end is strongly attracted to water, while the other is strongly repelled.

When detergent is mixed with water, it will naturally self-organise into the most energy efficient shapebubbles!

