



# Factors Influencing Surfactant Systems

**RAHN**

**Fine-tuning** or **reformulating** surfactant systems can be a challenging task.

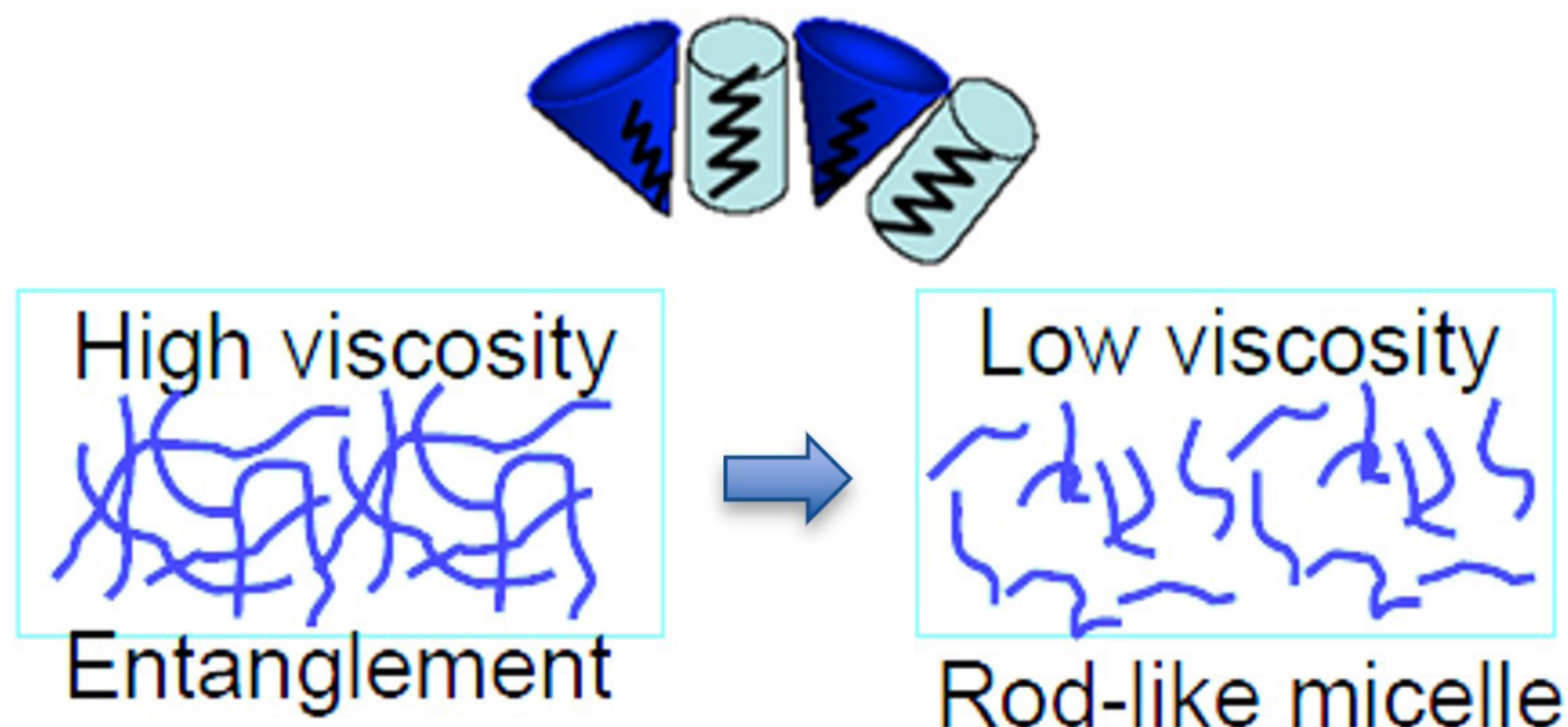
As a formulator, you are probably well aware of the profound impact that even **a minor adjustment** in your development process can have on the entire system.



# But what unfolds in this intricate process?

Typically, **disrupting** the formation of **worm-like structures** leads to a decline in viscosity.

This disturbance doesn't just impact **viscosity**; it also influences **stringiness** and **flow behavior**.



# Possible Factors Influencing Surfactant Systems

- ✓ **Perfumes (synthetic or natural):** can alter the surfactant landscape.
- ✓ **Solubilisers (e.g., Polysorbate 20):** orchestrate the solubilisation process, impacting the overall system structure.
- ✓ **Ionic surfactants:** influence interfacial tension and solution behavior.
- ✓ **Solvents (e.g., Ethanol):** alter fluid dynamics, affecting the thermodynamic properties of the surfactant solution.
- ✓ **Surface-active preservatives:** interfere with surfactant functionality.
- ✓ **Change of pH-value:** alters ionization states.
- ✓ **Reduction of surfactant levels:** can decrease concentrations, reshaping micellar structures and solution properties.

