

Introduction To Down Stream Products Of Oleochemicals

**By
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Benefits of OleoChemical

Produce chemicals similar to petrochemicals for wide range of application

Renewable and sustainable alternative.

More green and natural. Oil origin doesn't not contain harmful substance

Biodegradable

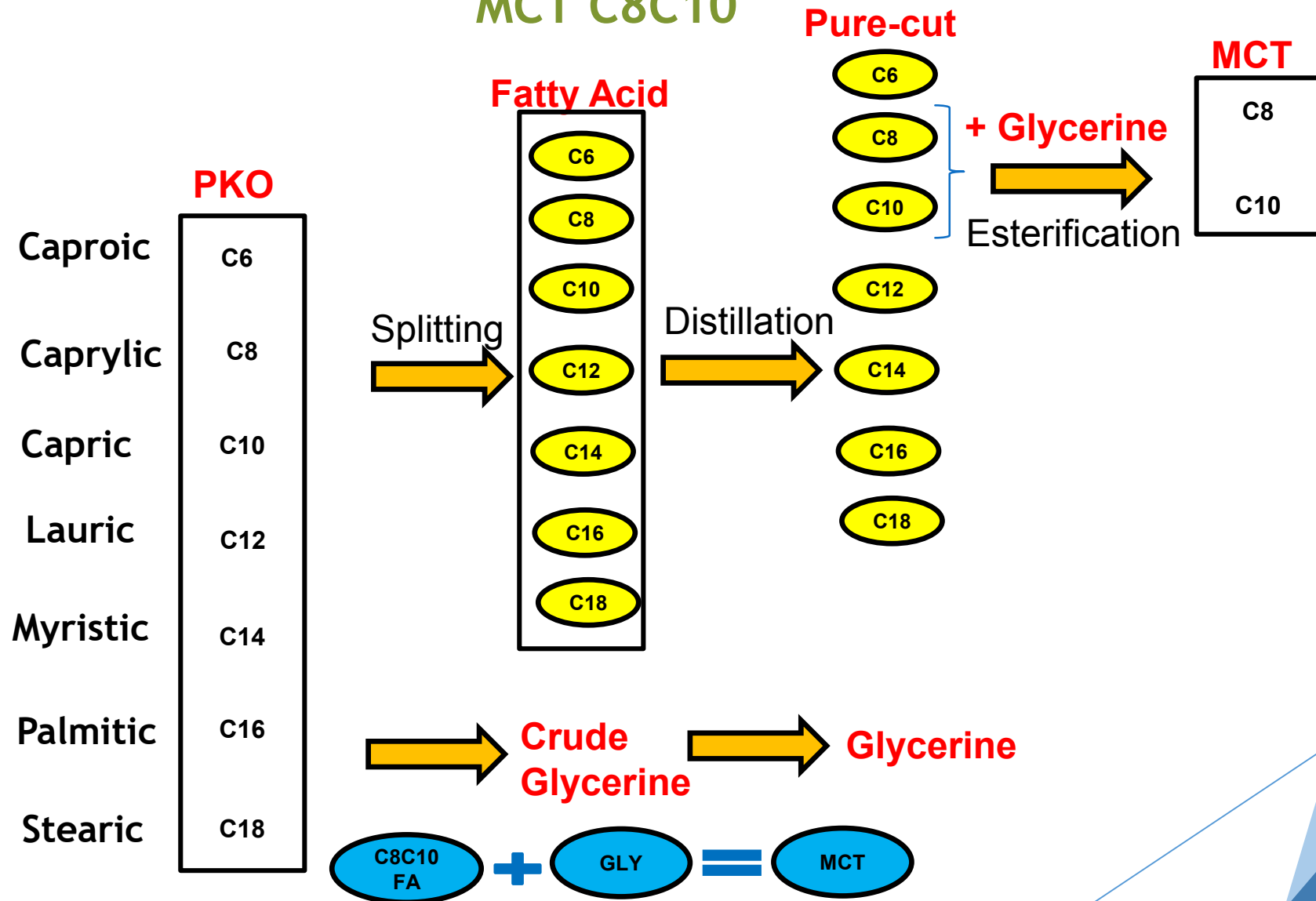


Biodegradable

Down Stream Products

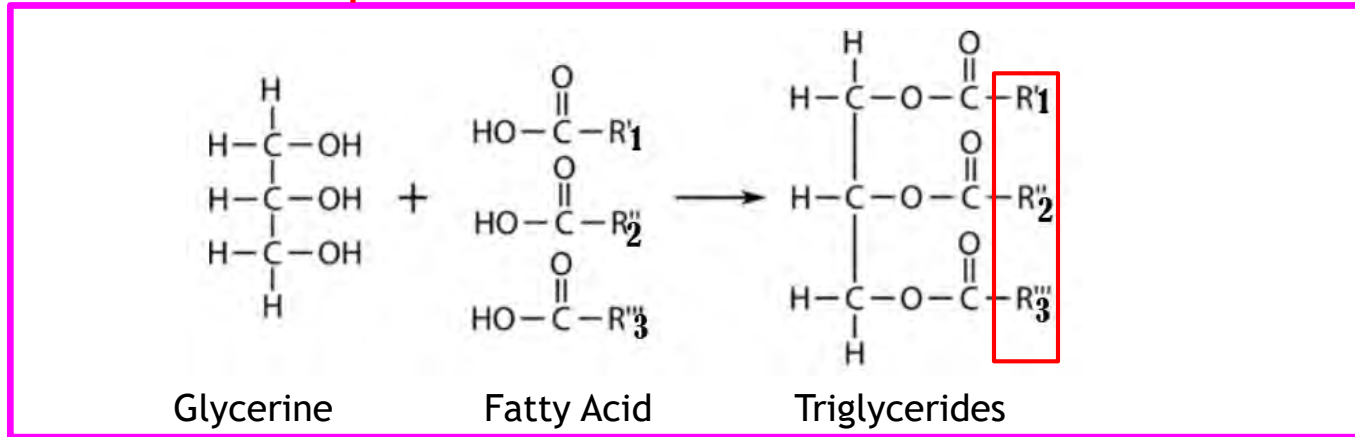
Medium Chain Triglycerides

MCT C8C10

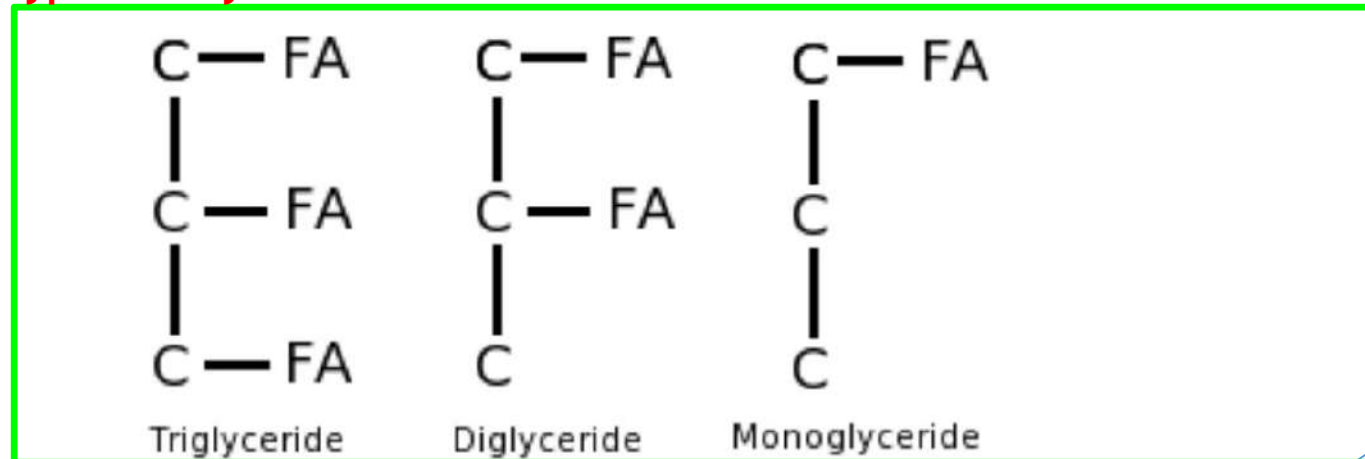


What is Triglycerides, Diglycerides and mono glycerides??

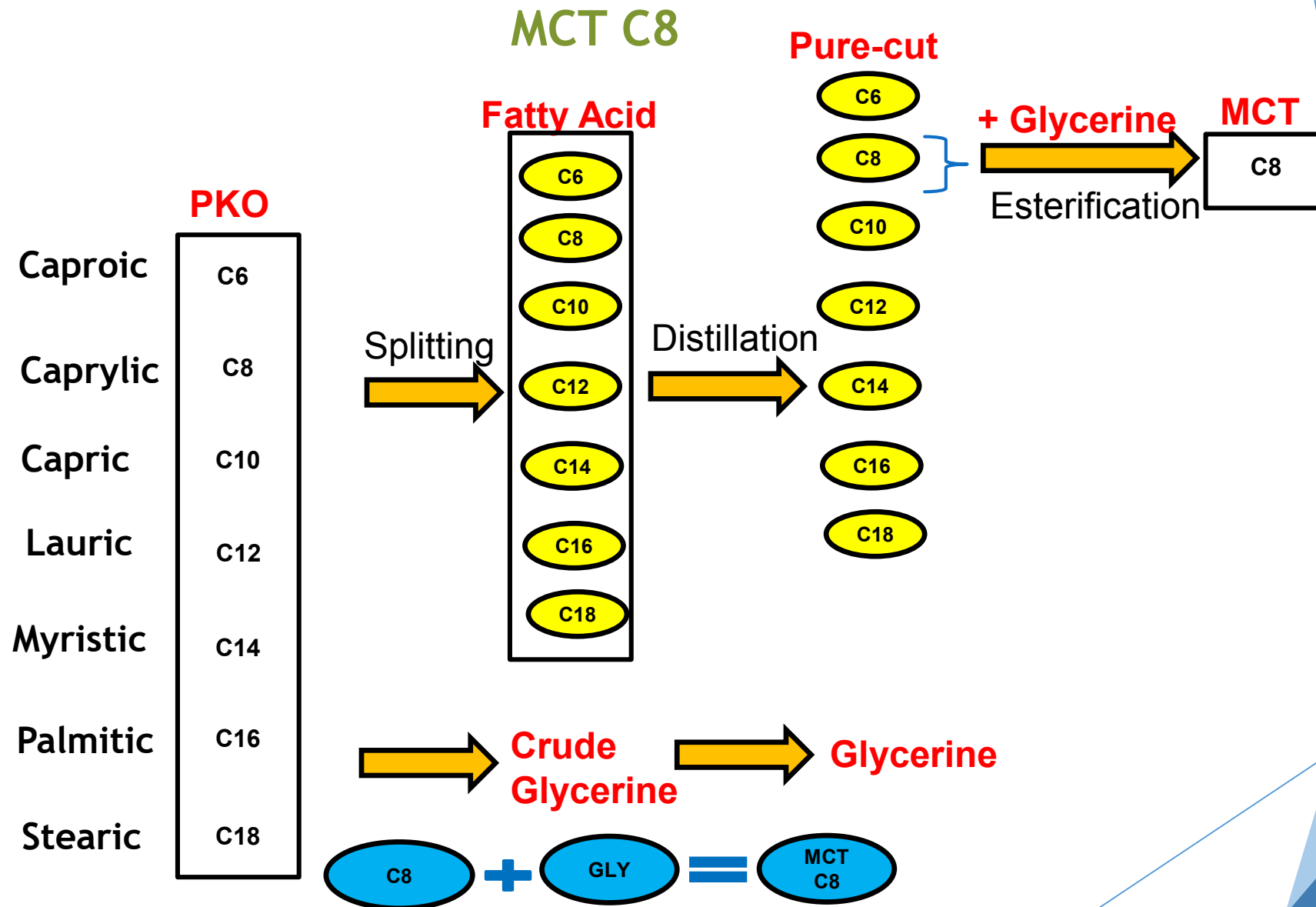
Esterification to produce MCT



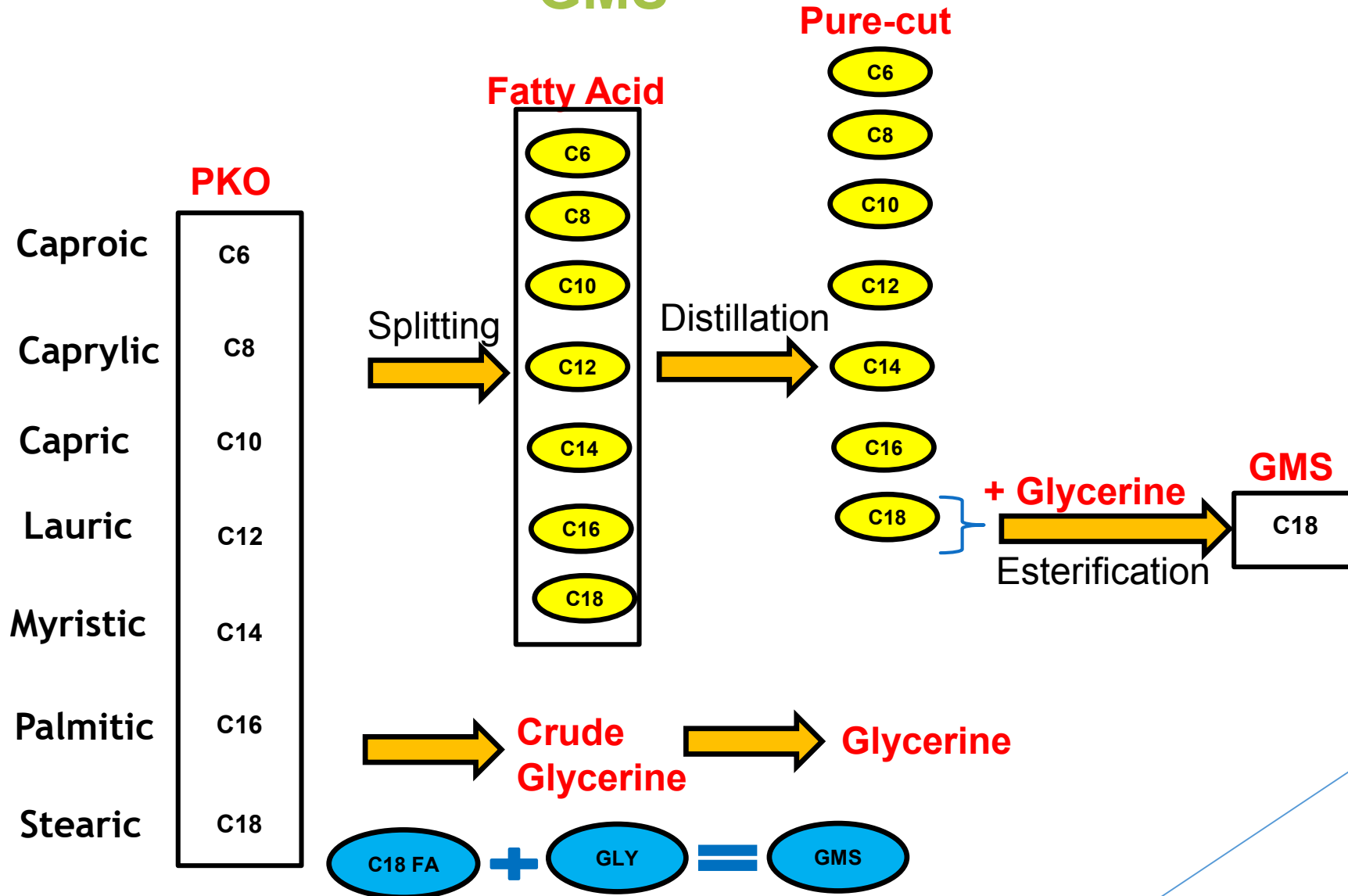
Types of Glycerides



Medium Chain Triglycerides

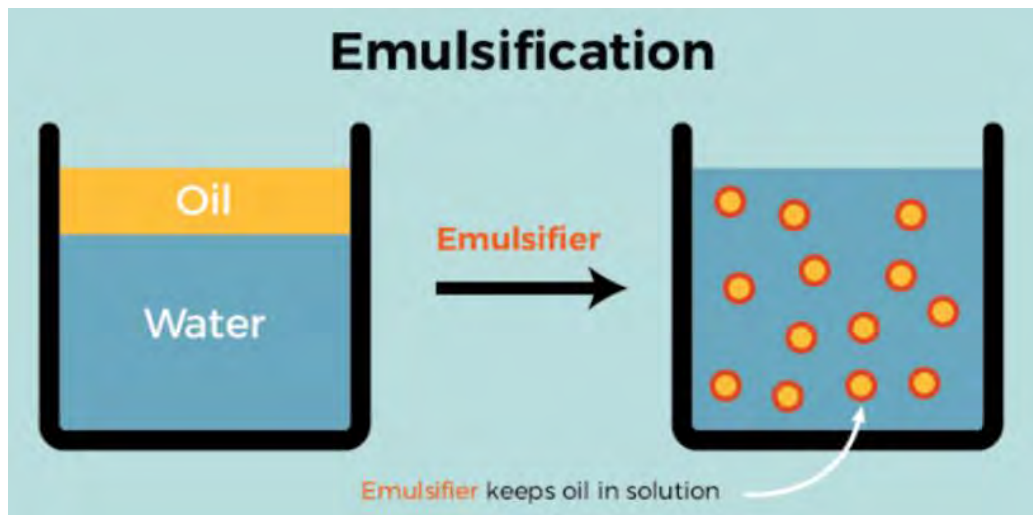


Glycerol Monostearate, GMS



Glycerol Monostearate, GMS

- Emulsifier in foods
- Prevent separation
- Create a smooth texture
- Preservative agent
- Extend shelf life



Glycerol Monostearate, GMS

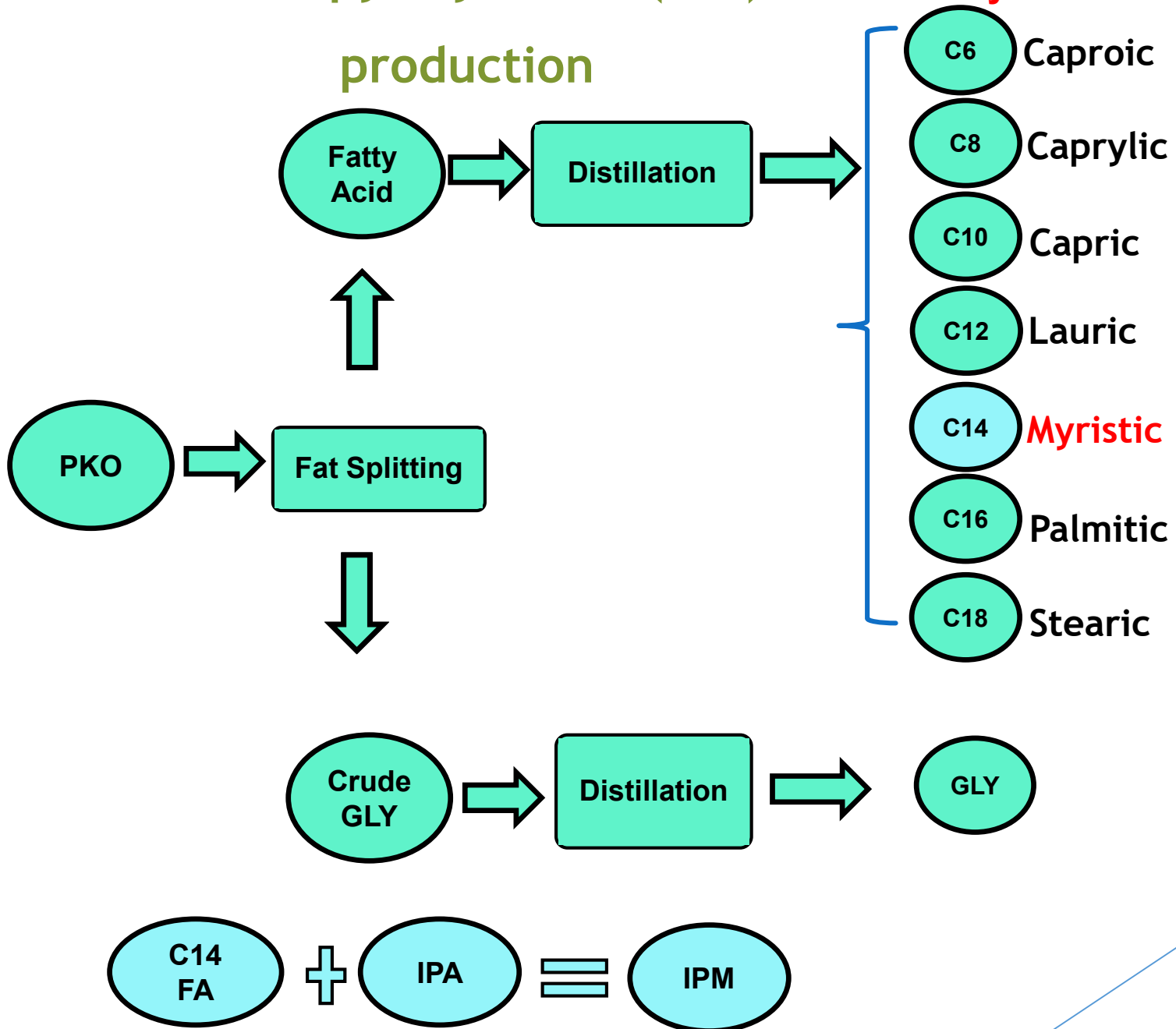


**Do you like soft and smooth texture cookies and ice cream?
Thanks to GMS**



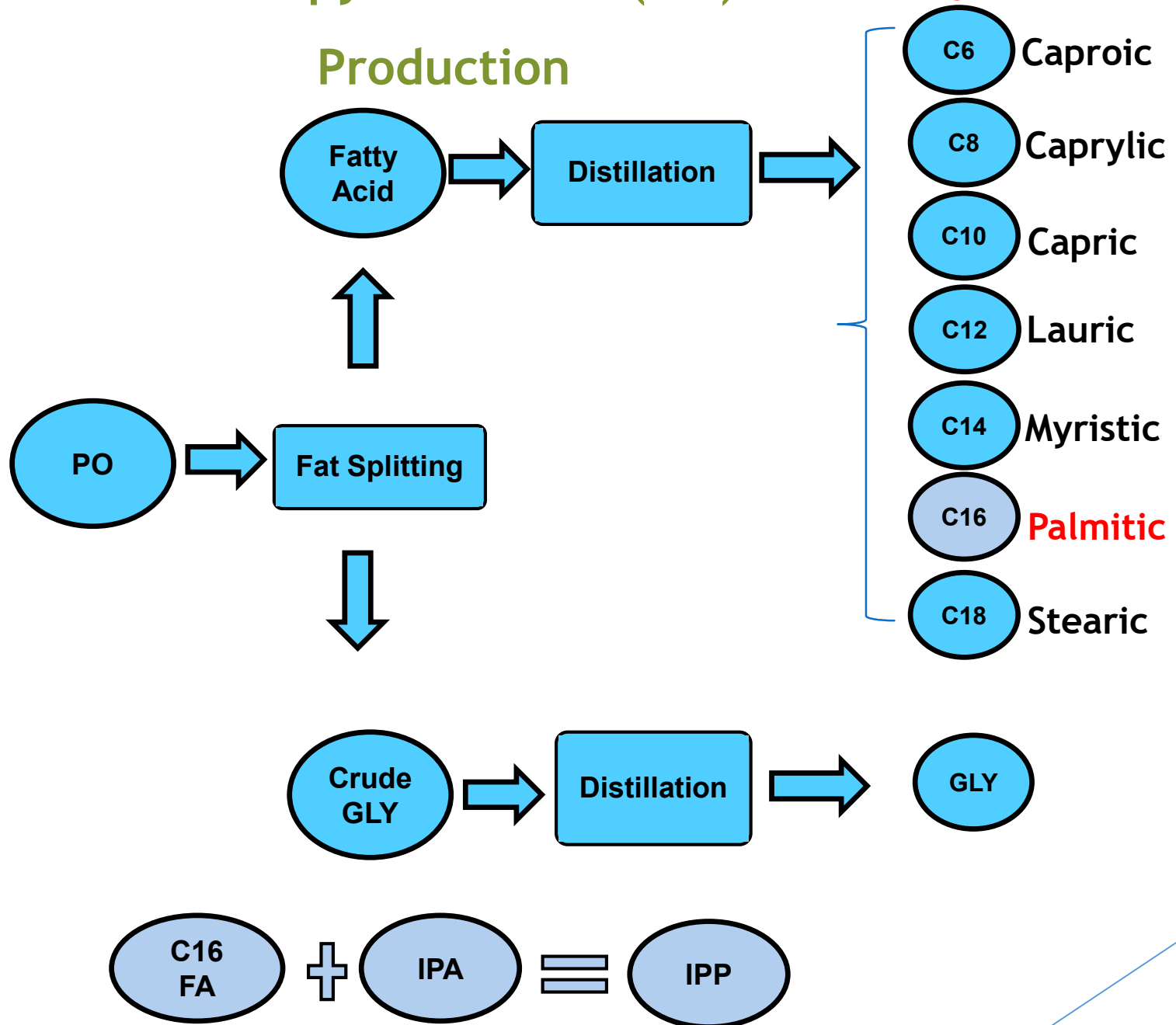
Iso Propyl Myristate (IPM)

production



Iso Propyl Palmitate (IPP)

Production



IPM & IPP APPLICATION

Cosmetics

Emollient, keep skin stay hydrated



Give creams & deodorants a denser texture.



Reduce the greasy feel

Used in deodorants, body lotions,
conditioners, sunscreens, foot moisturizers

IPM & IPP APPLICATION

Cosmetics

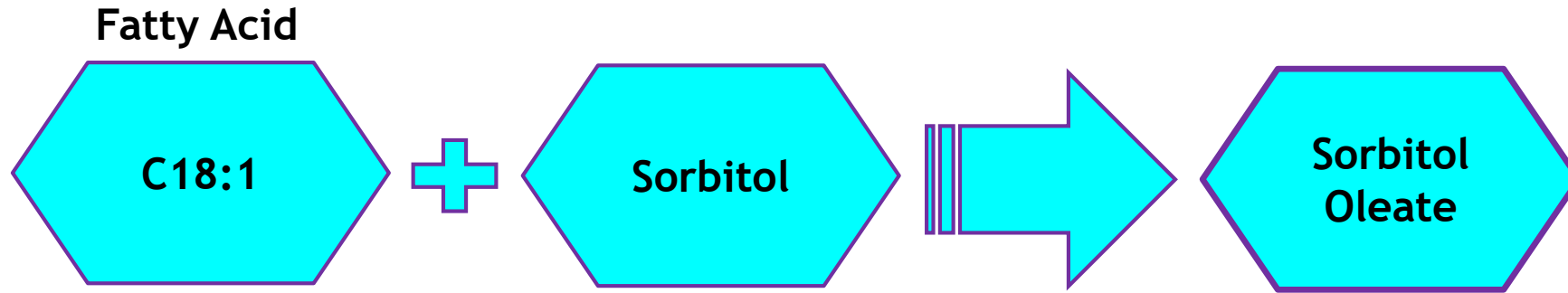


IPM & IPP APPLICATION

Cosmetics



Sorbitan Oleate



- ❖ It is considered a good co-emulsifier
- ❖ Spreading or dispersing agents
- ❖ Used in skin cleansing products, moisturizers, eye makeup and other makeup.

Sorbitan Oleate

Application in cosmetics



Sunscreen
Lotion for
baby



Lip Lipstick



Brow Mascara



Body oil

Glycerol Monolaurate, GML

Fatty Acid



Preventing and treating bacterial, fungal, or viral infections

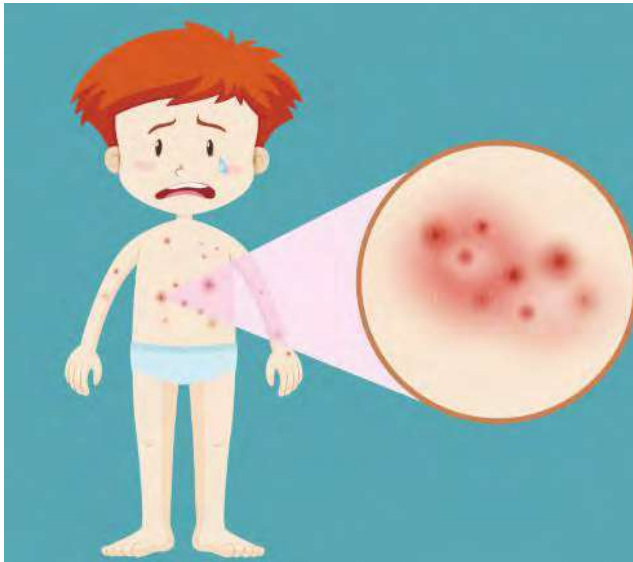
Treating some skin conditions

Boosting the immune system



Glycerol Monolaurate, GML

Infection caused by Bacteria and virus



Glycerol Monolaurate, GML

This product is designed to offer potent support for immune health

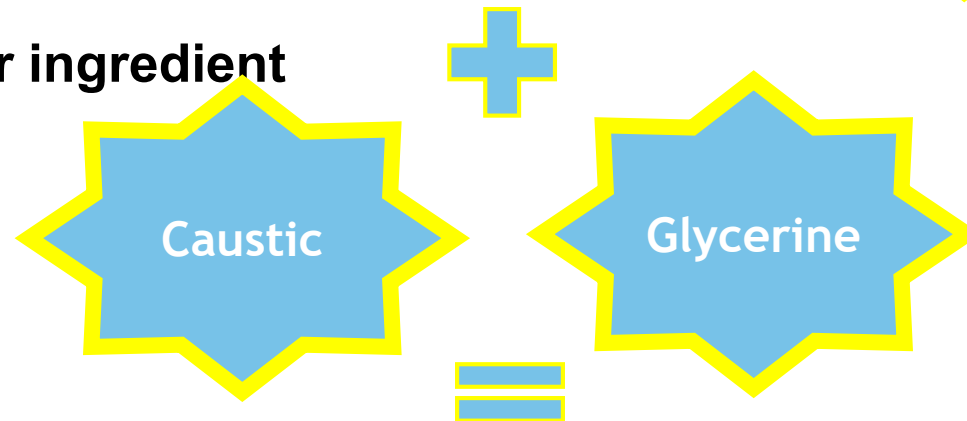


Soap production

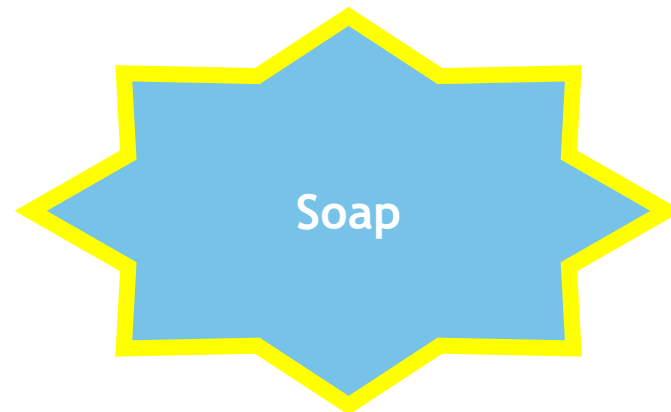
Fatty Acid Chain



Other ingredient



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Soap Application

Soap Bar



Different type of Soap

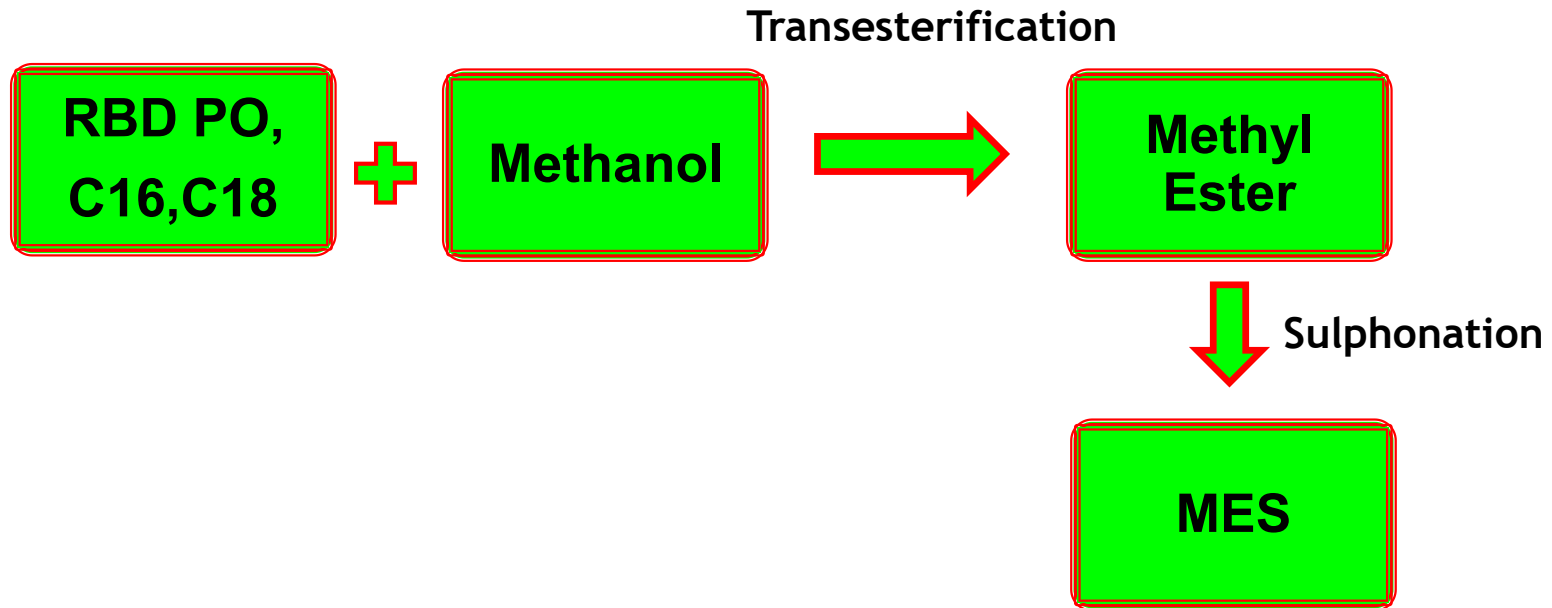
Specialty Soap

Specialty Soap – Contain special additives for specific functionality (1-5%)

Categories of additives
Emollients, moisturizer,
medicament



Methyl Ester Sulfonates or MES Production



Methyl Ester Sulfonates or MES

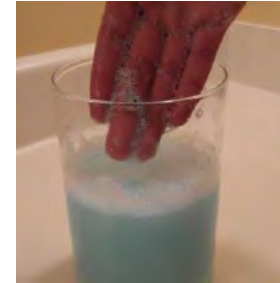
Why MES??

**Ingredient in
laundry detergents**

Good solubility

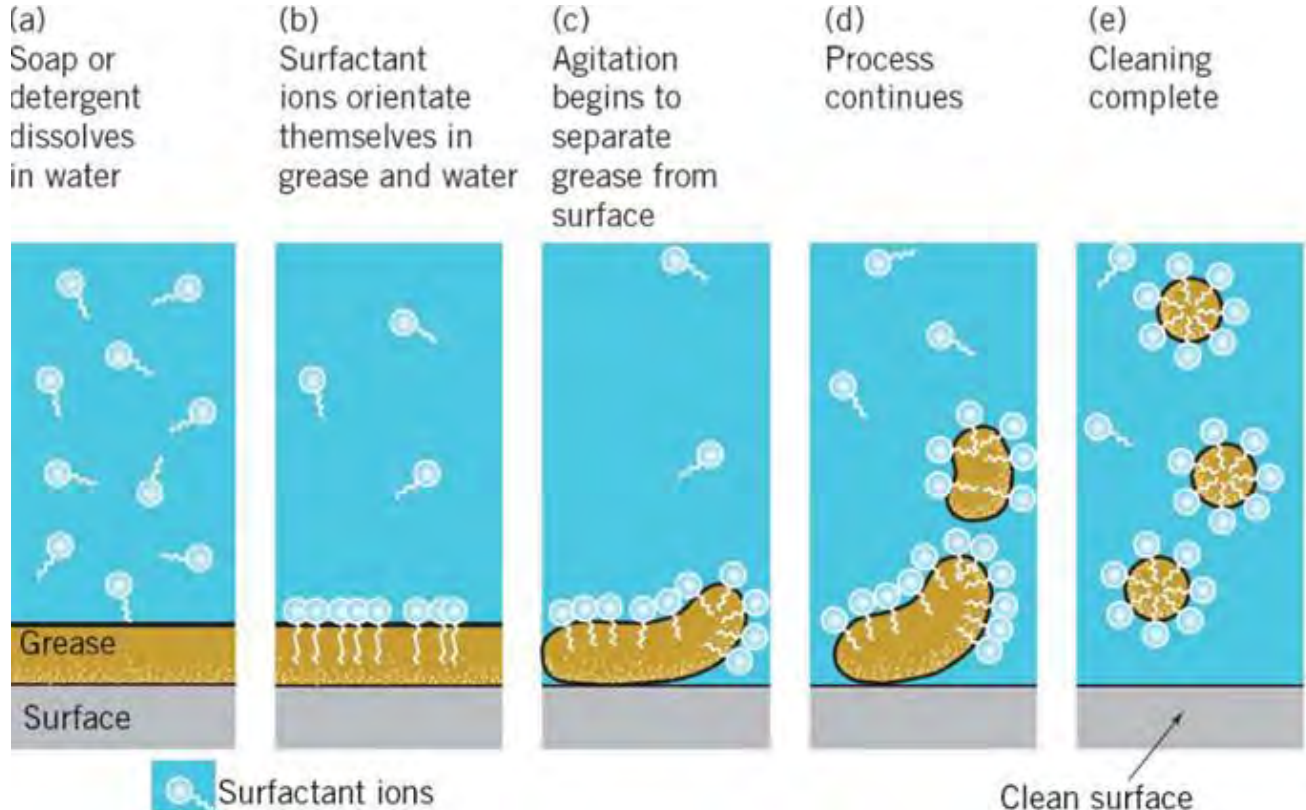
**Soft and no skin
irritant**

**Excellent bio-
degradability**



Methyl Ester Sulfonates or MES

How it works??



MES Application

MES helps to make your clothes clean



Summary of Application from this presentation

C8



C12-C18



C8C10



C16C18



C12



C16,C18



C14,C16



Thank you!

The text "Thank you!" is written in a black, cursive script. It is surrounded by several gold stars of varying sizes and a thick, gold brushstroke underline that curves under the text. The background is white with blue geometric shapes on the left and right sides.