dipids :-· hipids are nydrophobic [ hydro means water & phobic means fear . They do not mix with water of Insoluble in water (C6H6).

Includes fat, waxes, steroids & oil [They do not minwith water] e Useful for long term energy storage and provides insulation & protection \* Fatty acids:-Structure: - MOCCOH

(R-chain) Here, R-chain is hydrophobic (away from H2O)

COOH is hydrophilic (towards H2O) · Types of Fatty acido: Saturated V/s Meaturated Double bonds absent · Double bonds Fresent Melting point is high This is due to its linear molecular " Helting point is low This is due to its having double bond geometry with ziggag. This allows molecules to stack together in their corbon chain This creates & bends in the molecule which prevents molecules from leading to higher energy required packing logether as \$ tightly leading to lower everyy required to break the bond to break the bonds (Hence, solid at room temperature) Has maximum number of hydrogen to Has lesser number of hydrogen to bronded to carbon as compared to saturated to the House of the House 

A Shructure: H-C-C-C-H (C3H8O3) -1,2,3-told . It is a naturally occurring alcohol ( Triglyceride !-Out body cannot store fatty acids fin its ratural form) because the C-chain is too long To store et & [Body wesit for energy & storage] H-C-OH + Fatty acids P Triglyceride
H-C-OH + Fatty acids P Triglyceride glysrol 3 Fattyacide. · Triglyceride is composed of flycerol and 3 Fatty acids · Ilycerol formthe backwone of fat In the above reaction:

Sylycerod dehyrated, H-C-OH-C-O-