

Nail polish

SQUARE



OVAL



SQUARE OVAL



ALMOND



STILETTO



MOUNTAIN PEACK



BALLERINA



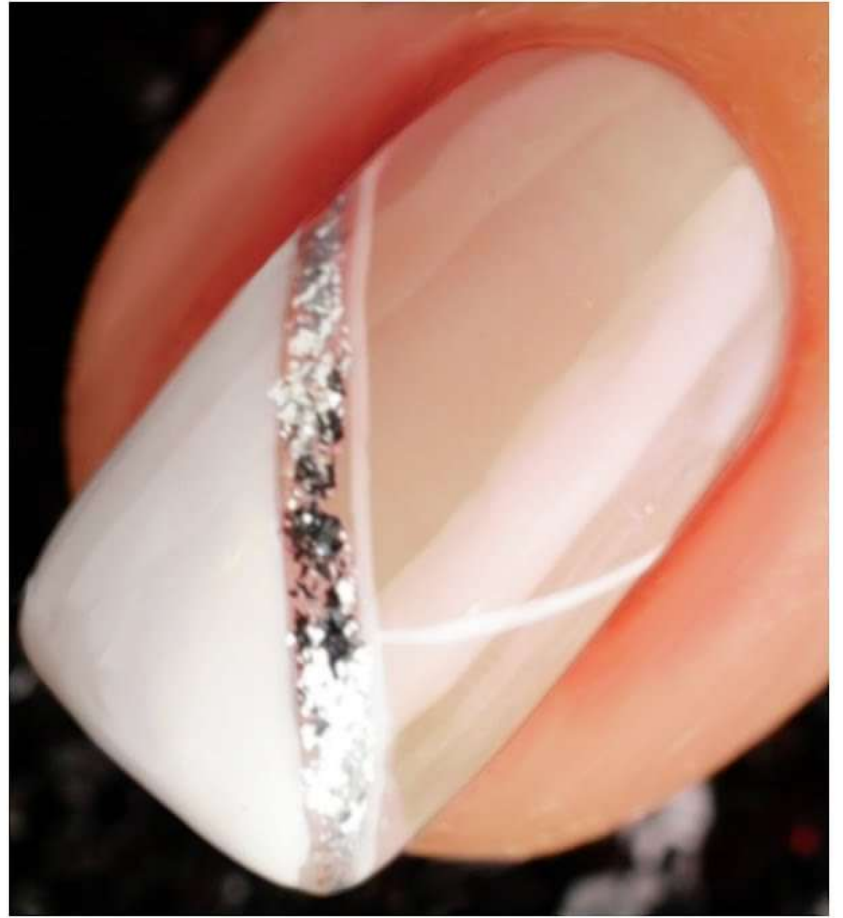
LIPSTICK









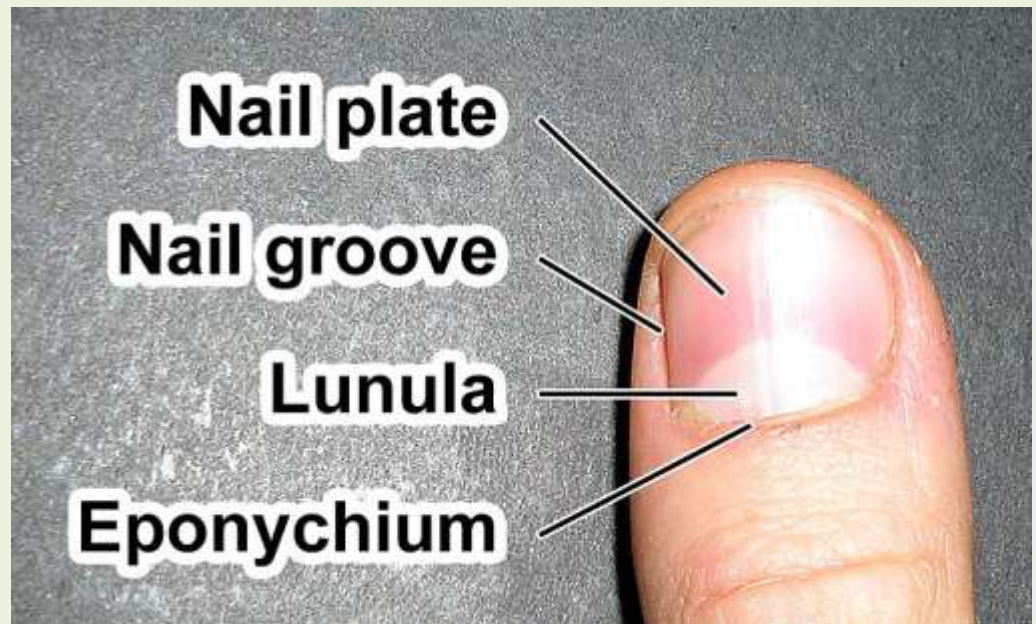






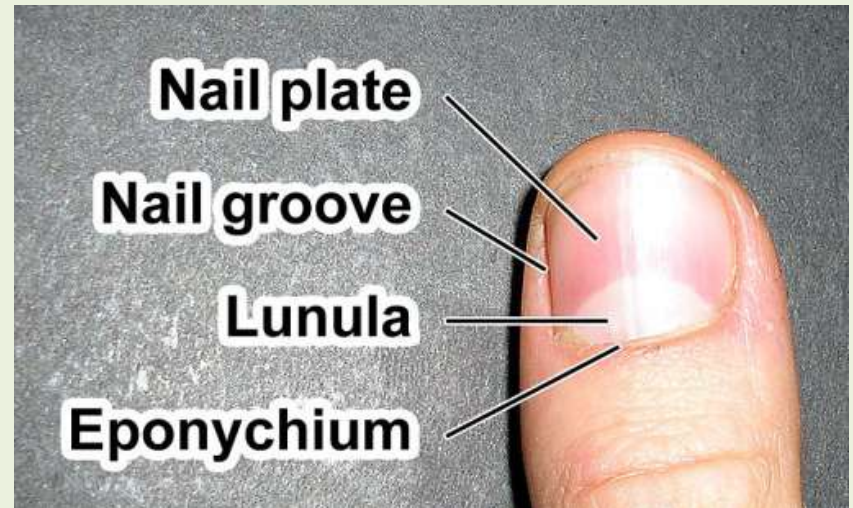
NAIL POLISH

- Nail Polish (Nail Varnish) is a lacquer which can be applied to finger nails or toe nails.



NAIL POLISH

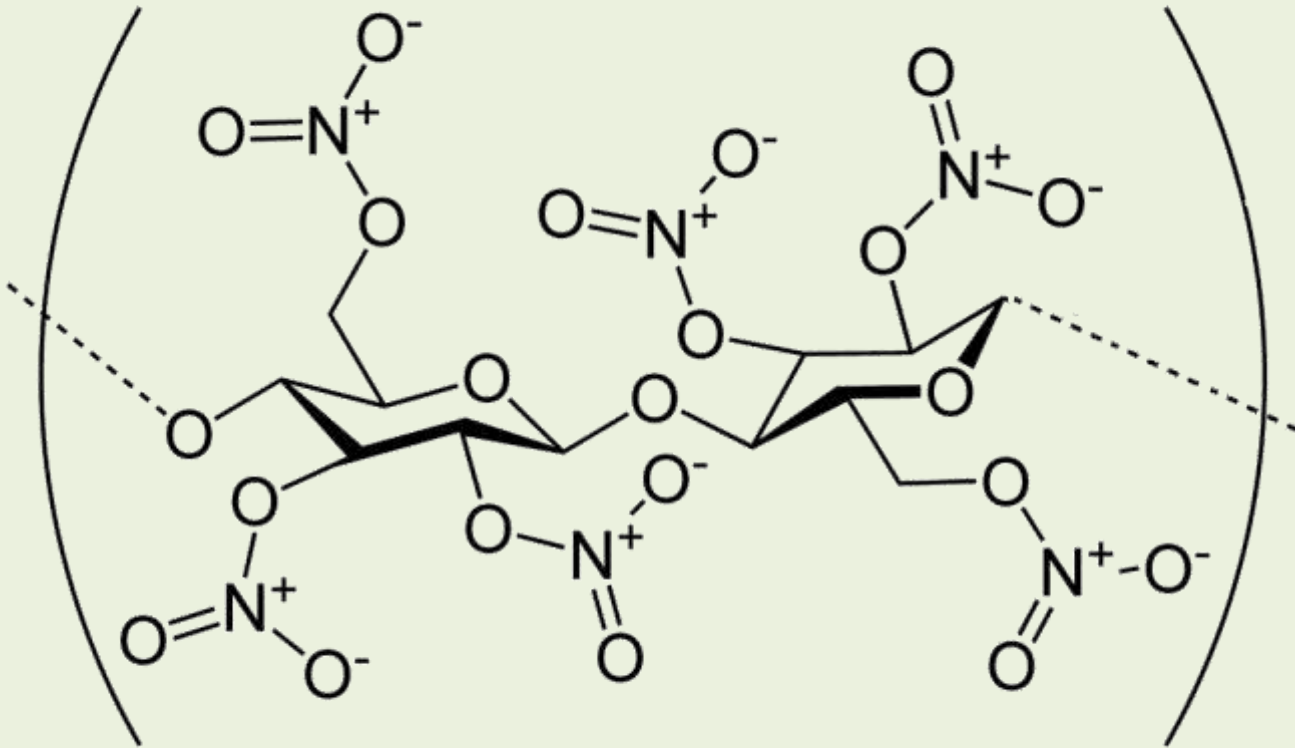
- It is used to **decorate** and **protect** the nail plates.
- It enhances the appearance of the nails in children and female.



Raw materials and their functions

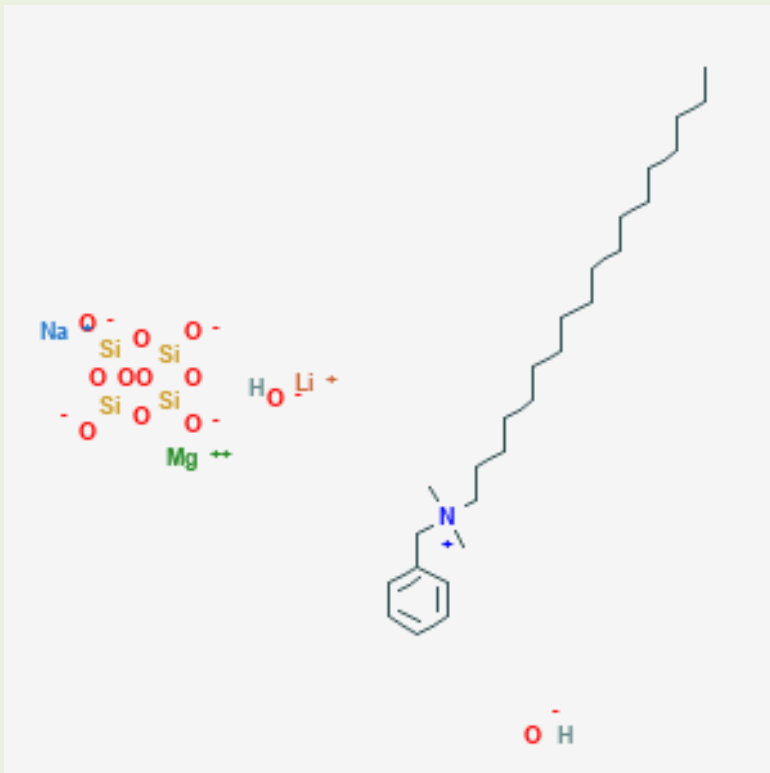
Film former

- Nitro cellulose



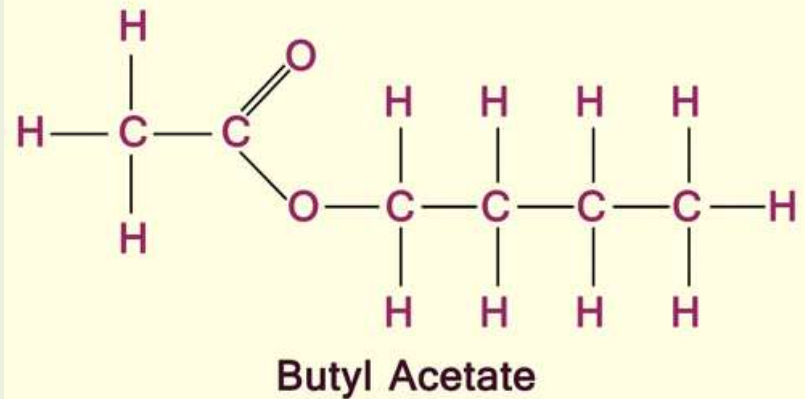
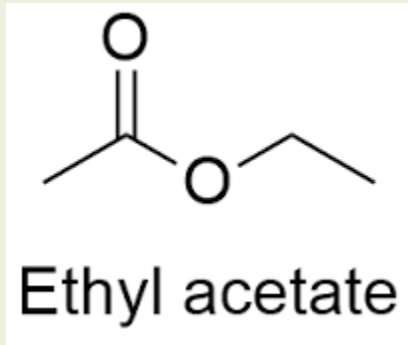
Thickener

- Synthetic resins like sclaralkonium hectorite



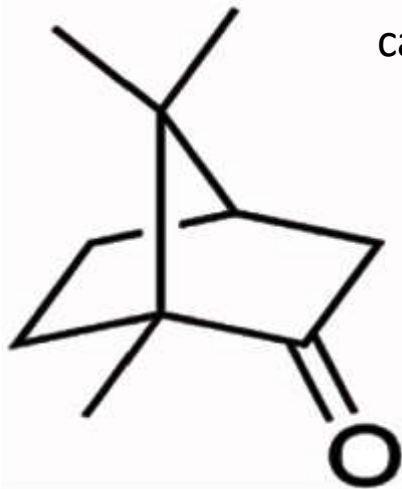
Solvents

- Ethyl acetate, Butyl acetate

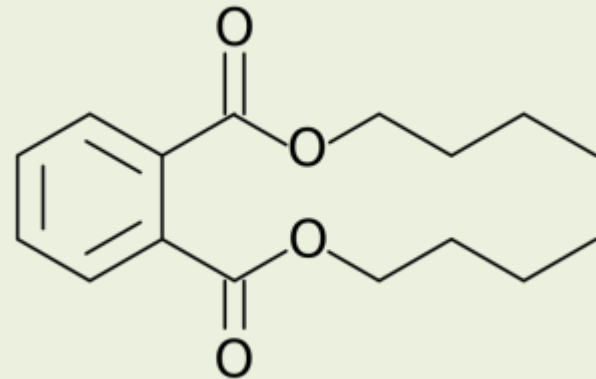


Plasticizers

- Tricresylphosphate, Dibutyl phthalate and camphor

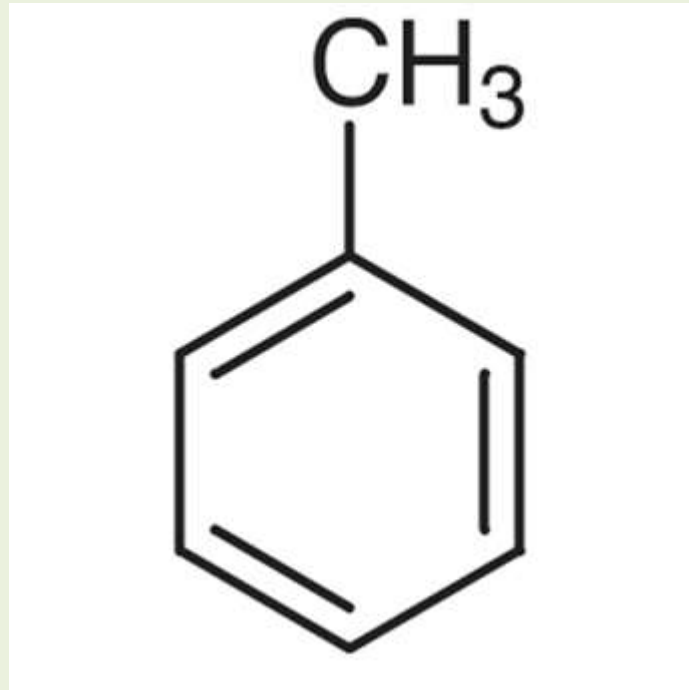


camphor



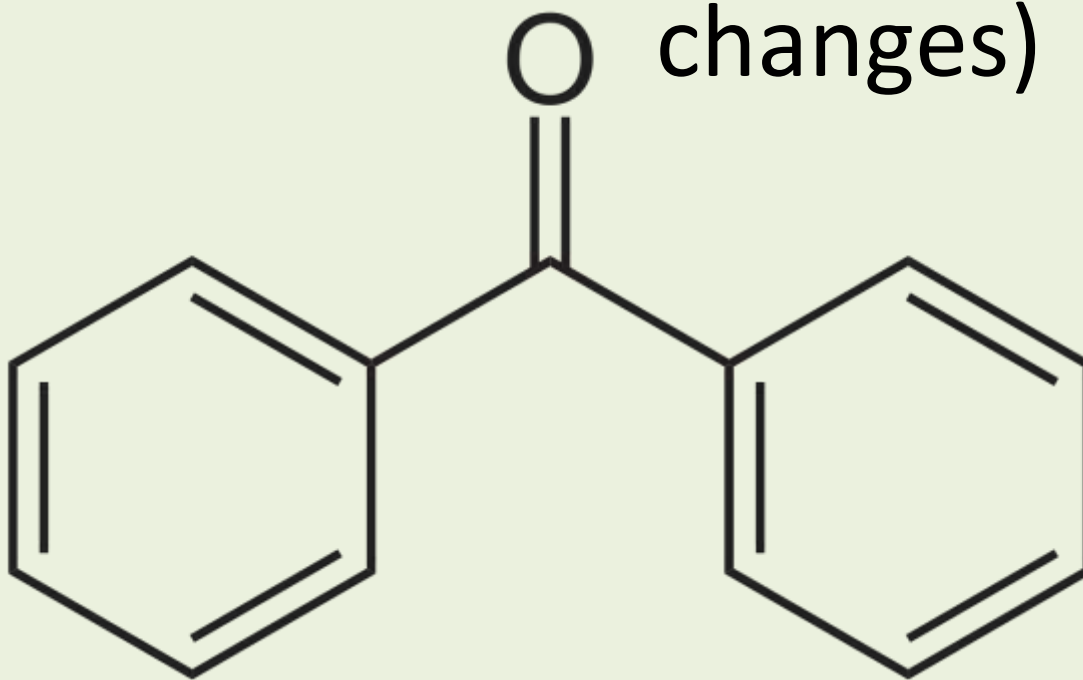
Diluent

- Toluene



Ultra violet stabilizers

- Benzophenone – 1 (to resist color changes)



Opalescent pigments

- Mica, Bismuth oxychlorides, natural pearls, aluminum powder to impart shiner look



Bismuth oxychlorides



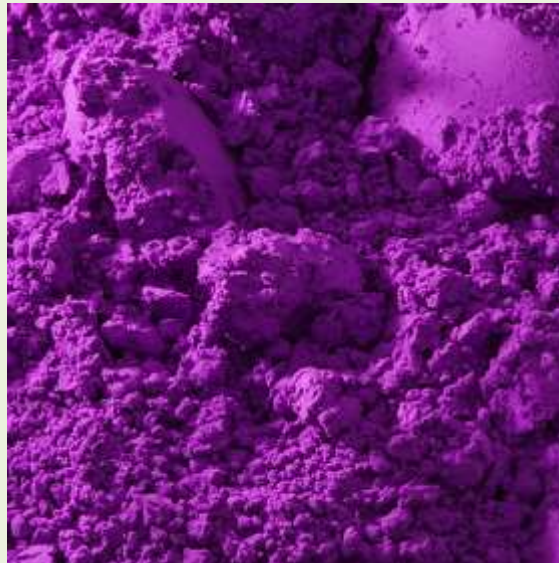
Colorant

- Eosine, Chromium oxide, Ferric ferrocyanate, Stannic oxide, Titanium dioxide, iron oxide, carmine, manganese violet, Ultramarine blue etc.,

carmine



manganese violet



Ultramarine blue



METHOD OF PREPARATIONS

- In a **stainless steel tank**, fitted with turbine or propeller type agitators, toluene is taken.



- While the machine is running, nitrocellulose is added and thoroughly wetted with toluene

- Solvents, plasticizers and resins with other chemicals are added and **agitation** is continued for several hours until a clear solution is obtained.

- Nail polish of different colors are prepared with suitable pigments.
- Blue - Ultramarine blue
- Green - Chrome oxide
- Black - Lamp black



- The clear mixture is stored in air tight containers and used





Finished

