

Third Laureate Research & Development

- ◆ Project Title: Acquiring the Technical Knowhow and Industrial Production of Emulate Cartridges
- ♠ Representative: Hossein Rajaian (M.Sc.)

Abstract:

The commercial explosives have important role in development of countries. The uses of conventional explosives poses many dangers during production, transformation and application. The new generation of this material is emulsion explosives. These explosives have high safety and security in production process, transformation and usage due to lack of molecular explosive matters. Water resistance, long shelf life, easy production, and formulation varieties for different uses are the advantages of this explosive. The aqueous phase in the emulsion explosives (oxidizer saturated solution in water) dispersed in organic phases (oily derivatives and emulsifiers) as small droplets. The other additives are also added to emulsion explosives to achieve sensitization, energy increasing, stabilization and storage.