The purpose of this paper is to analyse legal regulation of genetically modified organisms ("GMO"). This work consists of seven chapters and focuses especially on differences in regulations of the United States of America ("USA") and European Union ("EU"). While the USA consider GMO equal to other products and have no GMO specific legal norms, the EU regulates GMOs with directives and regulations which set GMO apart from other products. Conclusions are being drawn in last chapter. It is suggested, that the protective and economic approach to the GMOs should be balanced out on the international law scene, so that the development of biotechnology is not slowed down too much, while safety to human health and environment is guaranteed.