The aim of this talk is to illustrate through an example how geometric quantisation behaves when the real polarisations have nodal singularities. I am going to present a construction of singular lagrangian fibrations over a K3 surface and to compute their real geometric quantisation. The Hilbert spaces obtained are in general finite dimensional (although different from the Kähler quantisation); however, they can be infinite dimensional if the nodal fibres satisfy the Bohr--Sommerfeld condition.