



eye  
protection  
must be  
worn



IRRITANT  
iron chloride  
solid and  
solution

## 30: Naples Blood

● High level ● 30-60 minutes to prepare ● Leave for 4 days

### Requirements

weighing balance	10 g iron(III) chloride hydrate, $\text{FeCl}_3 \cdot \text{H}_2\text{O}$
dialysis tubing	20 g calcium carbonate powder, $\text{CaCO}_3$
150 cm <sup>3</sup> - 250 cm <sup>3</sup> beakers	1.5 g sodium chloride, NaCl
100 cm <sup>3</sup> measuring cylinder	

eye protection

### Method

See pupils' sheet.

### Chemical background

A thixotropic gel is a viscous fluid which has set, but which becomes liquid if shaken, pressed or jarred - rather like tomato ketchup. Left to stand it sets again.

Thixotropy depends on a network of hydrogen bonds which is strong enough to support the bulk of the material when set, but easily collapsed by shock or pressure.