

Pinfa's simplified pinFR substance factsheet

Boehmite – AlOOH

CAS#1318-23-6; EC#215-284-3

Basic information on Human Health and Environmental Properties

Boehmite is a non-hazardous, environmentally friendly, white powder.

It is not classified according CLP.

As an inorganic mineral Boehmite is not volatile, non flammable and non explosive. Boehmite is not water soluble. Solubility slightly increases under acidic or caustic conditions.

Boehmite as flame retardant is mainly used in plastic applications.

Under normal ambient condition Boehmite is a stable product. Thermal decomposition starts at temperature >340°C. Decomposition products are water and non-hazardous aluminum oxide.

Due to its mineral origin Boehmite will not migrate nor evaporate out of plastic products.

In a fire case Boehmite will decompose, absorbing energy, releasing water and causing charring (fire barrier). The released water vapour cools the surface of the polymer and particularly dilutes the concentration of burnable gases. It does substantially reduce smoke density and smoke corrosivity, too.

As a non-hazardous mineral Boehmite waste can be recycled, land filled or incinerated without any special requirements.

Link to ECHA Registered substance : [Boehmite – AlOOH](#)