



**S.O.P No 08**

**Treatment and disposal of degassed  
Aluminum and Magnesium Phosphide products**

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**Code of Best Practice**

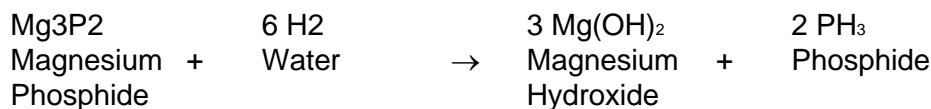
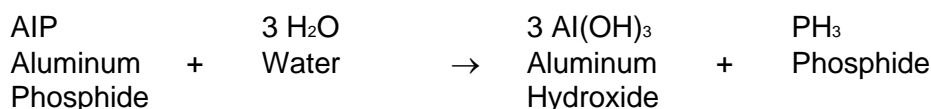
This Standard Operating Procedure (SOP)  
provides guidelines for the Treatment and disposal of degassed Aluminum and Magnesium  
Phosphide products

**Treatment and disposal of degassed Aluminum and Magnesium Phosphide  
products**

It is a known fact that after the completed fumigation, preparations containing aluminum or magnesium phosphide may still contain small quantities of undecomposed aluminum or magnesium phosphide.

For the conversion of such a minute quantity of phosphide into non-toxic products, the “HYDROLYSIS METHOD” has become universally accepted. With this method, the degassed products that may still contain little phosphide quantities are placed in water with small quantities of tensides.

In the process, the following chemical reaction proceed:



After deactivation of spent fumigants with this method, the active ingredients are converted to Aluminum Hydroxide or Magnesium Hydroxide, respectively. These Hydroxides are both naturally occurring, non-toxic minerals. Recent 5-batch analysis have proved that the active ingredients do not contain detectable amounts of the toxic heavy metals Arsenic, Mercury, Cadmium, Chromium, Nickel and Lead.

Therefore, it is possible that the material can be disposed according to local regulations. Incineration and dumping in official landfills are feasible options.

Source material: Detia Degesch GmbH

