

Halogen-free flame retardants for PA/PBT

The market for computer, consumer and communication electronics is steadily growing based on constant innovation.

Engineering plastics like polyamides find major use in electrical and electronic applications, but their flammability can be hazardous to consumers. Electronics manufacturers face increasing regulatory requirements for eco-friendly materials and processes, therefore opting for halogen-free flame retardants in polymers.

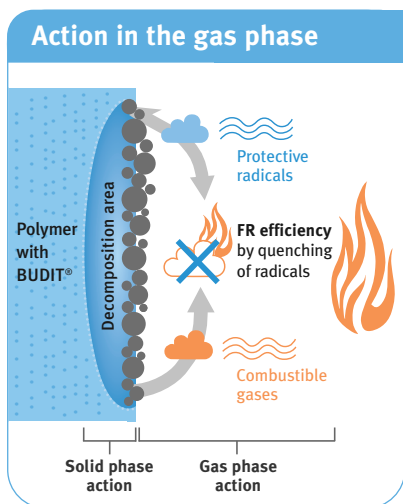
Components within the BUDIT® 3 Series and systems within the BUDIT® 6 Series offer the following benefits for use in engineering plastics:

- Halogen-free with an excellent eco-toxicological profile
- Efficient loadings have minor influence on mechanical and electrical properties
- Low leaching avoids unwanted migration to the surface during processing as well as under extreme weathering conditions

Budenheim is specialized and experienced in the production of halogen-free flame retardants for a wide range of applications in polymers. Challenge us.

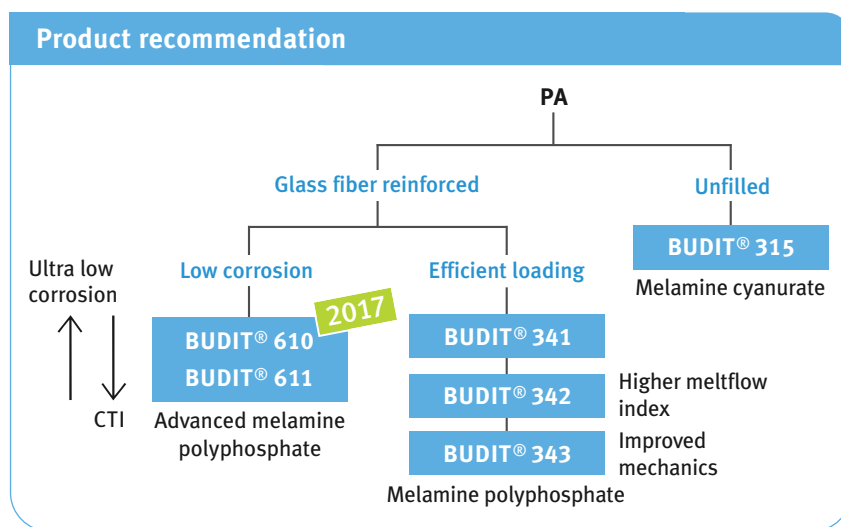
Flame retardants have become more sustainable

Flame retardants are essential in plastics and there is an increasing need for more environmentally compatible products. The BUDIT® Series of halogen-free flame retardants for engineering plastics include melamine cyanurates, melamine phosphates and melamine polyphosphates with different reactions to fire.



Whatever you want: BUDIT®

The BUDIT® Series covers almost all requirements within polyamide applications from gas phase activities to charring based on melamine polyphosphates to melamine cyanurates.



A toolbox for engineering plastics



Starting formulations

The typical applications are benefit from the highly chemically engineered products and meeting the relevant standards: UL 94 V-0 at 0.8 mm, glow wire ignition temperature GWIT (IEC/EN 60695-2-13):

Performance	Loading
Low corrosion, high CTI, GWIT 825	23% BUDIT® 610 + phosphinate
Ultra low corrosion, GWIT 825	23% BUDIT® 611 + phosphinate
Standard with limited corrosion, GWIT 750	12% BUDIT® 341/342/343 + 12% phosphinate
Standard, GWIT 750	7% BUDIT® 341/342/343 + 14% phosphinate

2017 Development product, commercially available in 2017

Chemische Fabrik Budenheim KG

Business Unit Material Ingredients | D 55257 Budenheim | Phone: +49(0)6139 89-0 | Fax: +49(0)6139 89-264 | www.budenheim.com

For further information,
please contact:
plastics@budenheim.com

Important notice: Any information contained herein and any advice given by Budenheim is made to the best of our ability on the basis of current industrial practice and our own knowledge and experience. Any responsibility for damages resulting from the use of or reliance upon such information or products such information refers to is limited pursuant to our Conditions of Sale and Delivery. Neither our advice nor any information contained herein shall cause the purchaser or any other person or entity using or intending to use our products to refrain from testing our products, verifying any suggestions contained in our information and/or reviewing (and, if relevant, respecting) any conflicting patent and other proprietary rights; and we expressly request and invite the customer or such other user of our products to perform such tests, have such tests performed prior to any commercial use or other application of our products for the specific use and application intended and to review (and, if relevant, to respect) any conflicting patent and other proprietary rights relevant for the specific product and/or use.