

Yoke Chemicals and New Materials (Shanghai) Co., Ltd.



and its subsidiaries Shekoy Chemicals Europe and USA

Technical Data Sheet

PhireGuard ELF-800

General Description and Use

PhireGuard ELF-800 flame retardant is a novel high molecular weight chlorinated phosphate ester for the production of flexible polyurethane foam.

PhireGuard ELF-800 is particularly suited to furniture and automotive applications that require superior emission performance (VOC's and fogging) as well as resistance to migration during ageing. Its superior compatibility with the PU matrix insures a durable fire protection.

Experiments and data gathered so far indicate that PhireGuard ELF-800, thanks to its resistance toward hydrolysis, can be used in both polyether polyol and polyester polyol- based foams.

Examples of fire standards that can be satisfied using PhireGuard ELF-800 are the UL-94, the Cal TB 117, the BS 5852 crib 5 (in combination with melamine for low density foam) and the FMVSS 302.

Typical Properties ¹⁾

Physical appearance	Yellow transparent liquid
Phosphorus content, wt%	9.7
Chlorine content, wt%	33.3
Viscosity @ 25°C, cPs	Approx 6000
Acid value, mgKOH/g	≤ 0.1
Water content, wt%	≤ 0.1

1) Please refer to the Certificate of Analysis for exact properties

Safety Information

Yoke Chemicals and New Materials (Shanghai) Co., Ltd. is committed to the health and safety of its customers and employees.

Avoid breathing vapour and mist. In case of direct contact with eyes or skin, rinse immediately with plenty of water and seek medical advice. In case of ingestion, rinse mouth with water and seek medical advice.

In any case wear suitable protective clothing and do consult the material safety data sheet of this product prior to utilization.

Handling and Shipping Information

Product is available in isocontainers (max. 25 t), totes (1250 l) and drums (250 l / 55 US gal).

Product must be stored in dry, cool area away from direct sun exposure and kept away from humidity and water contamination. Handle in accordance with good professional hygiene and safety procedures. Use in well ventilated areas.

In case of spillage, use a shovel or any other appropriate tool to collect the spill and place it into a chemical waste container. Do prevent spill from entering water supplies or water courses.

Contacts

May you require any further information regarding this product or any other product commercialized by the Jiangsu Yoke Technology Corporation, please do contact one of our following facilities at your best convenience:

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