

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



and its subsidiaries Shekoy Chemicals Europe and USA

Technical Data Sheet

PhireGuard HF-1

General Description and Use

PhireGuard HF-1 is a halogen-free flame retardant designed for the manufacture of flexible polyurethane foam. Although based on the sole phosphorus as active flame retardant component, its performance matches that of chlorinated phosphate esters.

In addition, PhireGuard HF-1 has a low viscosity that makes it suitable for all foaming technologies, slabstock or molding, including those using liquid carbon dioxide as the blowing agent.

Another benefit of PhireGuard HF-1 lies in its scorch property that outperforms that of most flame retardants commonly used in the production of flexible foam.

PhireGuard HF-1 is particularly recommended for use in flexible foams required to pass the California Technical Bulletin 117 fire safety standard for furniture applications and the FMVSS 302 for automotive applications.

Typical Properties¹⁾

Physical appearance	Clear transparent liquid
Phosphorus content, wt%	9.4-9.8
Density @ 25°C, kg/l	1.18
Viscosity @ 25°C, cPs	140
Acid value, mgKOH/g	<1
Water content, wt%	<0.1
Colour, APHA	<100

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).

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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