

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

and its subsidiaries Shekoy Chemicals Europe and USA

## Technical Data Sheet

### *PhireGuard NC-28*

#### General Description and Use

PhireGuard NC-28 is a low viscosity aromatics-free phosphate-based flame retardant that can be used in both polyether and polyester-based flexible polyurethane foams.

The other specificity of PhireGuard NC-28 lies in its superior resistance toward crystallization at low temperature, a phenomenon that is often encountered with similar flame retardant commercial grades. As a result, PhireGuard NC-28 is a flame retardant of choice for use in winter conditions.

Its high purity and absence of phenolic by-products make PhireGuard NC-28 a flame retardant of choice for enhanced VOC's performance application.

PhireGuard NC-28 can be used in continuous and discontinuous slabstock and moulded production applications. Examples of fire standards that can be met using PhireGuard NC-28 are UL 94, Cal TB 117 parts A and D, FMVSS 302. It can also be associated with a synergist (i.e. melamine) for the production of foams that meet the requirements of BS 5852 Crib 5.

#### Typical Properties <sup>1)</sup>

Physical appearance	Pale yellow transparent liquid
Phosphorus content, wt%	6.9-7.5
Chlorine content, wt%	45-47
Density @ 25°C, kg/l	1.47
Viscosity @ 25°C, cPs	1000
Acid value, mgKOH/g	<0.1
Water content, wt%	<0.1
Colour, APHA	<60
Odour	Very mild

<sup>1)</sup> 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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